



N00158.AR.000261
NAS WILLOW GROVE
5090.3a

TETRA TECH NUS

PHIL- 21203

TO: RUSS TURNER **DATE:** JULY 10, 2007
FROM: MEGAN RITCHIE **COPIES:** FILE
SUBJECT: ORGANIC DATA VALIDATION – VOC, SVOC, AND PESTICIDE/PCB
NAS JRB WILLOW GROVE SITE 3, WILLOW GROVE, PENNSYLVANIA
SDG NO. C7E080110

SAMPLES: 1/Aqueous/

TB-050707

4/Solid/

03TP15-0405-01 03TP16-0102-01 03TP17-0304-01 03-DUP-02

OVERVIEW

The sample set for the NAS JRB Willow Grove Site 3 Test Pits – Willow Grove, PA, SDG C7E080110 consists of 4 solid environmental samples (designated 03TP15-, 03TP16-, 03TP17, and 03-DUP-), and 1 field quality control (QC) blank (designated TB-). No samples were designated for matrix spike/matrix spike duplicate (MS/MSD) analyses. One field duplicate pair (03TP16-0102-01/03-DUP-02) was included in this sample set. All samples except the trip blank were analyzed for select Volatile Organic Compounds (VOCs), Semivolatile Organic Compounds (SVOCs), pesticides, and Polychlorinated Biphenyls (PCBs). The trip blank was analyzed for VOCs only.

The samples were collected by Tetra Tech NUS on May 7, 2007 and analyzed by Severn Trent Laboratories (STL) of Pittsburgh, Pennsylvania.

All analyses were conducted using EPA SW-846 Methods. VOCs were analyzed by 8260B, SVOCs by 8270C, and pesticides by 8081A, and PCBs by 8082.

SUMMARY

All analytes were successfully analyzed in all samples. The findings offered in this report are based upon a general review of all available data including data completeness, holding times until analysis, GC/MS tuning and calibration data, laboratory and field quality control blank results, system monitoring compound recoveries, matrix spike/matrix spike duplicate results, laboratory control spike/spike duplicate results, field duplicate results, internal standards performance, compound identification, and compound quantitation.

MINOR PROBLEMS

- The following table summarizes the analytes detected as contaminants in the laboratory blanks at the maximum concentration indicated:

Compound	Maximum Concentration	Action Level
Methylene Chloride	1.6 ug/Kg	16 ug/Kg

Samples affected: The soil action levels apply to all soil samples.

Adjustments were made for the samples aliquot size, percent moisture, and dilution factors. Results reported at concentrations within the action level are qualified (B) and are considered to be false positives (artifacts of blank contamination).

- The percent difference (%D) between the detected concentrations on two columns exceeded the QC criteria of $\pm 25\%$ for compounds in samples 03TP15-0405-01 and 03TP16-0102-01. These compounds were qualified as estimated (J).
- The field duplicate precision criteria for dieldrin exceeded the QC criteria of 2X the CRQL. Associated dieldrin results were qualified as estimated (J) in sample 03TP16-0102-01 and 03-DUP-02.
- Positive results at concentrations less than the reporting limits (RLs) were qualified as estimated (J).

Note

Volatiles

The continuing calibration percent difference (%D) for 2-hexanone, chloroethane, and trichlorofluoromethane exceeded the QC criteria of 25%. No qualifications were made because there were no positive detections of these compounds in the associated samples.

The MS/MSD recoveries for dibromomethane were below the lower QC limit of 75%. No action was taken on MS/MSD data alone.

The MS/MSD Relative Percent Difference (RPD) for chloroethane was above the QC limit of 20%. No action was taken on MS/MSD data alone.

Semivolatiles

The initial calibration RSD for benzaldehyde exceeded the 30% criteria. No qualifications were made because there were no positive detections of these compounds.

The continuing calibration percent difference (%D) for caprolactam exceeded the 25% criteria. No qualifications were made because there were no positive detections for this compound.

Several MS/MSD recoveries were outside QC limits. No action was taken on MS/MSD samples alone.

Pesticides

The retention times (RTs) for surrogate decachlorobiphenyl were outside QC limits for in the initial calibration. The continuing calibration and sample surrogate retention times were within QC limits. No action was taken.

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EXECUTIVE SUMMARY

Laboratory Performance: Methylene chloride was detected in the laboratory method blanks. Three VOC compounds %D exceeded continuing calibration criteria. One SVOC compound RSD exceeded initial calibration criteria. One SVOC compound %D exceeded continuing calibration criteria. Pesticide surrogate RTs were outside RT window criteria.

Other Factors Affecting Data Quality: One VOC MS/MSD recovery was outside QC criteria. One VOC MS/MSD RPD exceeded the QC limit. Several SVOC MS/MSD recoveries were outside QC criteria. The detected pesticide concentrations between two columns exceeded QC criteria for compounds in two samples. Field duplicate imprecision was noted for one pesticide compound.

The data for these analyses were reviewed with reference to the EPA "Functional Guidelines for Organic Data Review", as amended for use within EPA Region 3 (9/94).

The text of this report has been formatted to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the Functional Guidelines and the Quality Assurance Project Plan (QAPjP)."

Megan N. Ritchie
Megan N. Ritchie
Chemist

Russell Sloboda
Tetra Tech NUS, Inc.
Russell Sloboda
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Laboratory Analytical Results
3. Appendix C – Support Documentation

APPENDIX A
Qualified Analytical Results

PROJ_NO: 2192

SDG: C7E080110 MEDIA: SOIL DATA FRACTION: OV

nsample	03-DUP-02	nsample	03-DUP-02	nsample	03TP15-0405-01						
samp_date	5/7/2007	samp_date	5/7/2007	samp_date	5/7/2007						
lab_id	C7E080110005	lab_id	C7E080110005	lab_id	C7E080110002						
qc_type	NM	qc_type	NM	qc_type	NM						
units	UG/KG	units	UG/KG	units	UG/KG						
Pct_Solids	86.0	Pct_Solids	86.0	Pct_Solids	82.0						
DUP_OF:	03TP16-0102-01	DUP_OF:	03TP16-0102-01	DUP_OF:							
Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.6	U		CIS-1,3-DICHLOROPROPENE	5.6	U		1,1,1-TRICHLOROETHANE	5.2	U	
1,1,2,2-TETRACHLOROETHANE	5.6	U		CYCLOHEXANE	5.6	U		1,1,2,2-TETRACHLOROETHANE	5.2	U	
1,1,2-TRICHLOROETHANE	5.6	U		DICHLORODIFLUOROMETHANE	5.6	U		1,1,2-TRICHLOROETHANE	5.2	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5.6	U		ETHYLBENZENE	5.6	U		1,1,2-TRICHLOROTRIFLUOROETHANE	5.2	U	
1,1-DICHLOROETHANE	5.6	U		ISOPROPYLBENZENE	5.6	U		1,1-DICHLOROETHANE	5.2	U	
1,1-DICHLOROETHENE	5.6	U		M+P-XYLENES	11	U		1,1-DICHLOROETHENE	5.2	U	
1,2,3-TRICHLOROBENZENE	5.6	U		METHYL ACETATE	5.6	U		1,2,3-TRICHLOROBENZENE	5.2	U	
1,2,4-TRICHLOROBENZENE	5.6	U		METHYL CYCLOHEXANE	5.6	U		1,2,4-TRICHLOROBENZENE	5.2	U	
1,2-DIBROMO-3-CHLOROPROPANE	5.6	U		METHYL TERT-BUTYL ETHER	5.6	U		1,2-DIBROMO-3-CHLOROPROPANE	5.2	U	
1,2-DIBROMOETHANE	5.6	U		METHYLENE CHLORIDE	4	B	A	1,2-DIBROMOETHANE	5.2	U	
1,2-DICHLOROBENZENE	5.6	U		O-XYLENE	5.6	U		1,2-DICHLOROBENZENE	5.2	U	
1,2-DICHLOROETHANE	5.6	U		STYRENE	5.6	U		1,2-DICHLOROETHANE	5.2	U	
1,2-DICHLOROPROPANE	5.6	U		TETRACHLOROETHENE	5.6	U		1,2-DICHLOROPROPANE	5.2	U	
1,3-DICHLOROBENZENE	5.6	U		TOLUENE	5.6	U		1,3-DICHLOROBENZENE	5.2	U	
1,4-DICHLOROBENZENE	5.6	U		TRANS-1,2-DICHLOROETHENE	5.6	U		1,4-DICHLOROBENZENE	5.2	U	
2-BUTANONE	5.6	U		TRANS-1,3-DICHLOROPROPENE	5.6	U		2-BUTANONE	5.2	U	
2-HEXANONE	5.6	U		TRICHLOROETHENE	5.6	U		2-HEXANONE	5.2	U	
4-METHYL-2-PENTANONE	5.6	U		TRICHLOROFLUOROMETHANE	5.6	U		4-METHYL-2-PENTANONE	5.2	U	
ACETONE	22	U		VINYL CHLORIDE	5.6	U		ACETONE	21	U	
BENZENE	5.6	U						BENZENE	5.2	U	
BROMOCHLOROMETHANE	5.6	U						BROMOCHLOROMETHANE	5.2	U	
BROMODICHLOROMETHANE	5.6	U						BROMODICHLOROMETHANE	5.2	U	
BROMOFORM	5.6	U						BROMOFORM	5.2	U	
BROMOMETHANE	5.6	U						BROMOMETHANE	5.2	U	
CARBON DISULFIDE	5.6	U						CARBON DISULFIDE	5.2	U	
CARBON TETRACHLORIDE	5.6	U						CARBON TETRACHLORIDE	5.2	U	
CHLOROBENZENE	5.6	U						CHLOROBENZENE	5.2	U	
CHLORODIBROMOMETHANE	5.6	U						CHLORODIBROMOMETHANE	5.2	U	
CHLOROETHANE	5.6	U						CHLOROETHANE	5.2	U	
CHLOROFORM	5.6	U						CHLOROFORM	5.2	U	
CHLOROMETHANE	5.6	U						CHLOROMETHANE	5.2	U	
CIS-1,2-DICHLOROETHENE	5.6	U						CIS-1,2-DICHLOROETHENE	5.2	U	

PROJ_NO: 2192

SDG: C7E080110 MEDIA: SOIL DATA FRACTION: OV

nsample 03TP15-0405-01
 samp_date 5/7/2007
 lab_id C7E080110002
 qc_type NM
 units UG/KG
 Pct_Solids 82.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.2	U	
CYCLOHEXANE	5.2	U	
DICHLORODIFLUOROMETHANE	5.2	U	
ETHYLBENZENE	5.2	U	
ISOPROPYLBENZENE	5.2	U	
M+P-XYLENES	10	U	
METHYL ACETATE	5.2	U	
METHYL CYCLOHEXANE	5.2	U	
METHYL TERT-BUTYL ETHER	5.2	U	
METHYLENE CHLORIDE	6.8	B	A
O-XYLENE	5.2	U	
STYRENE	5.2	U	
TETRACHLOROETHENE	5.2	U	
TOLUENE	5.2	U	
TRANS-1,2-DICHLOROETHENE	5.2	U	
TRANS-1,3-DICHLOROPROPENE	5.2	U	
TRICHLOROETHENE	5.2	U	
TRICHLOROFUOROMETHANE	5.2	U	
VINYL CHLORIDE	5.2	U	

nsample 03TP16-0102-01
 samp_date 5/7/2007
 lab_id C7E080110003
 qc_type NM
 units UG/KG
 Pct_Solids 85.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.2	U	
1,1,2,2-TETRACHLOROETHANE	5.2	U	
1,1,2-TRICHLOROETHANE	5.2	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5.2	U	
1,1-DICHLOROETHANE	5.2	U	
1,1-DICHLOROETHENE	5.2	U	
1,2,3-TRICHLOROBENZENE	5.2	U	
1,2,4-TRICHLOROBENZENE	5.2	U	
1,2-DIBROMO-3-CHLOROPROPANE	5.2	U	
1,2-DIBROMOETHANE	5.2	U	
1,2-DICHLOROBENZENE	5.2	U	
1,2-DICHLOROETHANE	5.2	U	
1,2-DICHLOROPROPANE	5.2	U	
1,3-DICHLOROBENZENE	5.2	U	
1,4-DICHLOROBENZENE	5.2	U	
2-BUTANONE	5.2	U	
2-HEXANONE	5.2	U	
4-METHYL-2-PENTANONE	5.2	U	
ACETONE	21	U	
BENZENE	5.2	U	
BROMOCHLOROMETHANE	5.2	U	
BROMODICHLOROMETHANE	5.2	U	
BROMOFORM	5.2	U	
BROMOMETHANE	5.2	U	
CARBON DISULFIDE	5.2	U	
CARBON TETRACHLORIDE	5.2	U	
CHLOROBENZENE	5.2	U	
CHLORODIBROMOMETHANE	5.2	U	
CHLOROETHANE	5.2	U	
CHLOROFORM	5.2	U	
CHLOROMETHANE	5.2	U	
CIS-1,2-DICHLOROETHENE	5.2	U	

nsample 03TP16-0102-01
 samp_date 5/7/2007
 lab_id C7E080110003
 qc_type NM
 units UG/KG
 Pct_Solids 85.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.2	U	
CYCLOHEXANE	5.2	U	
DICHLORODIFLUOROMETHANE	5.2	U	
ETHYLBENZENE	5.2	U	
ISOPROPYLBENZENE	5.2	U	
M+P-XYLENES	10	U	
METHYL ACETATE	5.2	U	
METHYL CYCLOHEXANE	5.2	U	
METHYL TERT-BUTYL ETHER	5.2	U	
METHYLENE CHLORIDE	3	B	A
O-XYLENE	5.2	U	
STYRENE	5.2	U	
TETRACHLOROETHENE	5.2	U	
TOLUENE	5.2	U	
TRANS-1,2-DICHLOROETHENE	5.2	U	
TRANS-1,3-DICHLOROPROPENE	5.2	U	
TRICHLOROETHENE	5.2	U	
TRICHLOROFUOROMETHANE	5.2	U	
VINYL CHLORIDE	5.2	U	

PROJ_NO: 2192

SDG: C7E080110 MEDIA: SOIL DATA FRACTION: OV

nsample	03TP17-0304-01		
samp_date	5/7/2007		
lab_id	C7E080110004		
qc_type	NM		
units	UG/KG		
Pct_Solids	83.0		
DUP_OF:			

Parameter	Result	Val Qual	Qual Code
1,1,1-TRICHLOROETHANE	5.4	U	
1,1,2-TETRACHLOROETHANE	5.4	U	
1,1,2-TRICHLOROETHANE	5.4	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	5.4	U	
1,1-DICHLOROETHANE	5.4	U	
1,1-DICHLOROETHENE	5.4	U	
1,2,3-TRICHLOROBENZENE	5.4	U	
1,2,4-TRICHLOROBENZENE	5.4	U	
1,2-DIBROMO-3-CHLOROPROPANE	5.4	U	
1,2-DIBROMOETHANE	5.4	U	
1,2-DICHLOROBENZENE	5.4	U	
1,2-DICHLOROETHANE	5.4	U	
1,2-DICHLOROPROPANE	5.4	U	
1,3-DICHLOROBENZENE	5.4	U	
1,4-DICHLOROBENZENE	5.4	U	
2-BUTANONE	5.4	U	
2-HEXANONE	5.4	U	
4-METHYL-2-PENTANONE	5.4	U	
ACETONE	22	U	
BENZENE	5.4	U	
BROMOCHLOROMETHANE	5.4	U	
BROMODICHLOROMETHANE	5.4	U	
BROMOFORM	5.4	U	
BROMOMETHANE	5.4	U	
CARBON DISULFIDE	5.4	U	
CARBON TETRACHLORIDE	5.4	U	
CHLOROBENZENE	5.4	U	
CHLORODIBROMOMETHANE	5.4	U	
CHLOROETHANE	5.4	U	
CHLOROFORM	5.4	U	
CHLOROMETHANE	5.4	U	
CIS-1,2-DICHLOROETHENE	5.4	U	

nsample	03TP17-0304-01		
samp_date	5/7/2007		
lab_id	C7E080110004		
qc_type	NM		
units	UG/KG		
Pct_Solids	83.0		
DUP_OF:			

Parameter	Result	Val Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5.4	U	
CYCLOHEXANE	5.4	U	
DICHLORODIFLUOROMETHANE	5.4	U	
ETHYLBENZENE	5.4	U	
ISOPROPYLBENZENE	5.4	U	
M+P-XYLENES	11	U	
METHYL ACETATE	5.4	U	
METHYL CYCLOHEXANE	5.4	U	
METHYL TERT-BUTYL ETHER	5.4	U	
METHYLENE CHLORIDE	3.4	B	A
O-XYLENE	5.4	U	
STYRENE	5.4	U	
TETRACHLOROETHENE	5.4	U	
TOLUENE	5.4	U	
TRANS-1,2-DICHLOROETHENE	5.4	U	
TRANS-1,3-DICHLOROPROPENE	5.4	U	
TRICHLOROETHENE	5.4	U	
TRICHLOROFLUOROMETHANE	5.4	U	
VINYL CHLORIDE	5.4	U	

PROJ_NO: 2192

SDG: C7E080110 MEDIA: WATER DATA FRACTION: OV

nsample TB-050707
samp_date 5/7/2007
lab_id C7E080110001
qc_type NM
units UG/L
Pct_Solids
DUP_OF:

Parameter	Result	Val	Qual	Qual Code
1,1,1-TRICHLOROETHANE	5	U		
1,1,2,2-TETRACHLOROETHANE	5	U		
1,1,2-TRICHLOROETHANE	5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	5	U		
1,1-DICHLOROETHANE	5	U		
1,1-DICHLOROETHENE	5	U		
1,2,3-TRICHLOROBENZENE	5	U		
1,2,4-TRICHLOROBENZENE	5	U		
1,2-DIBROMO-3-CHLOROPROPANE	5	U		
1,2-DIBROMOETHANE	5	U		
1,2-DICHLOROBENZENE	5	U		
1,2-DICHLOROETHANE	5	U		
1,2-DICHLOROPROPANE	5	U		
1,3-DICHLOROBENZENE	5	U		
1,4-DICHLOROBENZENE	5	U		
2-BUTANONE	5	U		
2-HEXANONE	5	U		
4-METHYL-2-PENTANONE	5	U		
ACETONE	20	U		
BENZENE	5	U		
BROMOCHLOROMETHANE	5	U		
BROMODICHLOROMETHANE	5	U		
BROMOFORM	5	U		
BROMOMETHANE	5	U		
CARBON DISULFIDE	5	U		
CARBON TETRACHLORIDE	5	U		
CHLOROBENZENE	5	U		
CHLORODIBROMOMETHANE	5	U		
CHLOROETHANE	5	U		
CHLOROFORM	5	U		
CHLOROMETHANE	5	U		
CIS-1,2-DICHLOROETHENE	5	U		

nsample TB-050707
samp_date 5/7/2007
lab_id C7E080110001
qc_type NM
units UG/L
Pct_Solids
DUP_OF:

Parameter	Result	Val	Qual	Qual Code
CIS-1,3-DICHLOROPROPENE	5	U		
CYCLOHEXANE	5	U		
DICHLORODIFLUOROMETHANE	5	U		
ETHYLBENZENE	5	U		
ISOPROPYLBENZENE	5	U		
M+P-XYLENES	10	U		
METHYL ACETATE	5	U		
METHYL CYCLOHEXANE	5	U		
METHYL TERT-BUTYL ETHER	5	U		
METHYLENE CHLORIDE	5	U		
O-XYLENE	5	U		
STYRENE	5	U		
TETRACHLOROETHENE	5	U		
TOLUENE	5	U		
TRANS-1,2-DICHLOROETHENE	5	U		
TRANS-1,3-DICHLOROPROPENE	5	U		
TRICHLOROETHENE	5	U		
TRICHLOROFLUOROMETHANE	5	U		
VINYL CHLORIDE	5	U		

PROJ_NO: 2192

SDG: C7E080110 MEDIA: SOIL DATA FRACTION: OS

nsample	03-DUP-02
samp_date	5/7/2007
lab_id	C7E080110005
qc_type	NM
units	UG/KG
Pct_Solids	86.0
DUP_OF:	03TP16-0102-01

nsample	03-DUP-02
samp_date	5/7/2007
lab_id	C7E080110005
qc_type	NM
units	UG/KG
Pct_Solids	86.0
DUP_OF:	03TP16-0102-01

nsample	03-DUP-02
samp_date	5/7/2007
lab_id	C7E080110005
qc_type	NM
units	UG/KG
Pct_Solids	86.0
DUP_OF:	03TP16-0102-01

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	380	U	
1,2,4,5-TETRACHLOROBENZENE	380	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	380	U	
2,3,4,6-TETRACHLOROPHENOL	380	U	
2,4,5-TRICHLOROPHENOL	380	U	
2,4,6-TRICHLOROPHENOL	380	U	
2,4-DICHLOROPHENOL	380	U	
2,4-DIMETHYLPHENOL	380	U	
2,4-DINITROPHENOL	1900	U	
2,4-DINITROTOLUENE	380	U	
2,6-DINITROTOLUENE	380	U	
2-CHLORONAPHTHALENE	380	U	
2-CHLOROPHENOL	380	U	
2-METHYLNAPHTHALENE	380	U	
2-METHYLPHENOL	380	U	
2-NITROANILINE	1900	U	
2-NITROPHENOL	380	U	
3,3'-DICHLOROBENZIDINE	1900	U	
3-NITROANILINE	1900	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U	
4-BROMOPHENYL PHENYL ETHER	380	U	
4-CHLORO-3-METHYLPHENOL	380	U	
4-CHLOROANILINE	380	U	
4-CHLOROPHENYL PHENYL ETHER	380	U	
4-METHYLPHENOL	380	U	
4-NITROANILINE	1900	U	
4-NITROPHENOL	1900	U	
ACENAPHTHENE	380	U	
ACENAPHTHYLENE	380	U	
ACETOPHENONE	380	U	
ANTHRACENE	380	U	
ATRAZINE	380	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	380	U	
BENZO(A)ANTHRACENE	380	U	
BENZO(A)PYRENE	380	U	
BENZO(B)FLUORANTHENE	380	U	
BENZO(G,H,I)PERYLENE	380	U	
BENZO(K)FLUORANTHENE	380	U	
BIS(2-CHLOROETHOXY)METHANE	380	U	
BIS(2-CHLOROETHYL)ETHER	380	U	
BIS(2-ETHYLHEXYL)PHTHALATE	380	U	
BUTYL BENZYL PHTHALATE	380	U	
CAPROLACTAM	380	U	
CARBAZOLE	380	U	
CHRYSENE	380	U	
DIBENZO(A,H)ANTHRACENE	380	U	
DIBENZOFURAN	380	U	
DIETHYL PHTHALATE	380	U	
DIMETHYL PHTHALATE	380	U	
DI-N-BUTYL PHTHALATE	380	U	
DI-N-OCTYL PHTHALATE	380	U	
FLUORANTHENE	380	U	
FLUORENE	380	U	
HEXACHLOROBENZENE	380	U	
HEXACHLOROBUTADIENE	380	U	
HEXACHLOROCYCLOPENTADIENE	1900	U	
HEXACHLOROETHANE	380	U	
INDENO(1,2,3-CD)PYRENE	380	U	
ISOPHORONE	380	U	
NAPHTHALENE	380	U	
NITROBENZENE	380	U	
N-NITROSO-DI-N-PROPYLAMINE	380	U	
N-NITROSODIPHENYLAMINE	380	U	
PENTACHLOROPHENOL	1900	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	380	U	
PHENOL	380	U	
PYRENE	380	U	

PROJ_NO: 2192

SDG: C7E080110 MEDIA: SOIL DATA FRACTION: OS

nsample 03TP15-0405-01
 samp_date 5/7/2007
 lab_id C7E080110002
 qc_type NM
 units UG/KG
 Pct_Solids 82.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	400	U	
1,2,4,5-TETRACHLOROBENZENE	400	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	400	U	
2,3,4,6-TETRACHLOROPHENOL	400	U	
2,4,5-TRICHLOROPHENOL	400	U	
2,4,6-TRICHLOROPHENOL	400	U	
2,4-DICHLOROPHENOL	400	U	
2,4-DIMETHYLPHENOL	400	U	
2,4-DINITROPHENOL	1900	U	
2,4-DINITROTOLUENE	400	U	
2,6-DINITROTOLUENE	400	U	
2-CHLORONAPHTHALENE	400	U	
2-CHLOROPHENOL	400	U	
2-METHYLNAPHTHALENE	400	U	
2-METHYLPHENOL	400	U	
2-NITROANILINE	1900	U	
2-NITROPHENOL	400	U	
3,3'-DICHLOROBENZIDINE	1900	U	
3-NITROANILINE	1900	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U	
4-BROMOPHENYL PHENYL ETHER	400	U	
4-CHLORO-3-METHYLPHENOL	400	U	
4-CHLOROANILINE	400	U	
4-CHLOROPHENYL PHENYL ETHER	400	U	
4-METHYLPHENOL	400	U	
4-NITROANILINE	1900	U	
4-NITROPHENOL	1900	U	
ACENAPHTHENE	400	U	
ACENAPHTHYLENE	400	U	
ACETOPHENONE	400	U	
ANTHRACENE	400	U	
ATRAZINE	400	U	

nsample 03TP15-0405-01
 samp_date 5/7/2007
 lab_id C7E080110002
 qc_type NM
 units UG/KG
 Pct_Solids 82.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	400	U	
BENZO(A)ANTHRACENE	400	U	
BENZO(A)PYRENE	400	U	
BENZO(B)FLUORANTHENE	400	U	
BENZO(G,H,I)PERYLENE	400	U	
BENZO(K)FLUORANTHENE	400	U	
BIS(2-CHLOROETHOXY)METHANE	400	U	
BIS(2-CHLOROETHYL)ETHER	400	U	
BIS(2-ETHYLHEXYL)PHTHALATE	400	U	
BUTYL BENZYL PHTHALATE	400	U	
CAPROLACTAM	400	U	
CARBAZOLE	400	U	
CHRYSENE	400	U	
DIBENZO(A,H)ANTHRACENE	400	U	
DIBENZOFURAN	400	U	
DIETHYL PHTHALATE	400	U	
DIMETHYL PHTHALATE	400	U	
DI-N-BUTYL PHTHALATE	400	U	
DI-N-OCTYL PHTHALATE	400	U	
FLUORANTHENE	400	U	
FLUORENE	400	U	
HEXACHLOROBENZENE	400	U	
HEXACHLOROBUTADIENE	400	U	
HEXACHLOROCYCLOPENTADIENE	1900	U	
HEXACHLOROETHANE	400	U	
INDENO(1,2,3-CD)PYRENE	400	U	
ISOPHORONE	400	U	
NAPHTHALENE	400	U	
NITROBENZENE	400	U	
N-NITROSO-DI-N-PROPYLAMINE	400	U	
N-NITROSODIPHENYLAMINE	400	U	
PENTACHLOROPHENOL	1900	U	

nsample 03TP15-0405-01
 samp_date 5/7/2007
 lab_id C7E080110002
 qc_type NM
 units UG/KG
 Pct_Solids 82.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	400	U	
PHENOL	400	U	
PYRENE	400	U	

nsample 03TP16-0102-01
 samp_date 5/7/2007
 lab_id C7E080110003
 qc_type NM
 units UG/KG
 Pct_Solids 85.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	390	U	
1,2,4,5-TETRACHLOROBENZENE	390	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	390	U	
2,3,4,6-TETRACHLOROPHENOL	390	U	
2,4,5-TRICHLOROPHENOL	390	U	
2,4,6-TRICHLOROPHENOL	390	U	
2,4-DICHLOROPHENOL	390	U	
2,4-DIMETHYLPHENOL	390	U	
2,4-DINITROPHENOL	1900	U	
2,4-DINITROTOLUENE	390	U	
2,6-DINITROTOLUENE	390	U	
2-CHLORONAPHTHALENE	390	U	
2-CHLOROPHENOL	390	U	
2-METHYLNAPHTHALENE	390	U	
2-METHYLPHENOL	390	U	
2-NITROANILINE	1900	U	
2-NITROPHENOL	390	U	
3,3'-DICHLOROBENZIDINE	1900	U	
3-NITROANILINE	1900	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U	
4-BROMOPHENYL PHENYL ETHER	390	U	
4-CHLORO-3-METHYLPHENOL	390	U	
4-CHLOROANILINE	390	U	
4-CHLOROPHENYL PHENYL ETHER	390	U	
4-METHYLPHENOL	390	U	
4-NITROANILINE	1900	U	
4-NITROPHENOL	1900	U	
ACENAPHTHENE	390	U	
ACENAPHTHYLENE	390	U	
ACETOPHENONE	390	U	
ANTHRACENE	390	U	
ATRAZINE	390	U	

nsample 03TP16-0102-01
 samp_date 5/7/2007
 lab_id C7E080110003
 qc_type NM
 units UG/KG
 Pct_Solids 85.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	390	U	
BENZO(A)ANTHRACENE	390	U	
BENZO(A)PYRENE	390	U	
BENZO(B)FLUORANTHENE	390	U	
BENZO(G,H,I)PERYLENE	390	U	
BENZO(K)FLUORANTHENE	390	U	
BIS(2-CHLOROETHOXY)METHANE	390	U	
BIS(2-CHLOROETHYL)ETHER	390	U	
BIS(2-ETHYLHEXYL)PHTHALATE	390	U	
BUTYL BENZYL PHTHALATE	390	U	
CAPROLACTAM	390	U	
CARBAZOLE	390	U	
CHRYSENE	390	U	
DIBENZO(A,H)ANTHRACENE	390	U	
DIBENZOFURAN	390	U	
DIETHYL PHTHALATE	390	U	
DIMETHYL PHTHALATE	390	U	
DI-N-BUTYL PHTHALATE	390	U	
DI-N-OCTYL PHTHALATE	390	U	
FLUORANTHENE	390	U	
FLUORENE	390	U	
HEXACHLOROBENZENE	390	U	
HEXACHLOROBUTADIENE	390	U	
HEXACHLOROCYCLOPENTADIENE	1900	U	
HEXACHLOROETHANE	390	U	
INDENO(1,2,3-CD)PYRENE	390	U	
ISOPHORONE	390	U	
NAPHTHALENE	390	U	
NITROBENZENE	390	U	
N-NITROSO-DI-N-PROPYLAMINE	390	U	
N-NITROSODIPHENYLAMINE	390	U	
PENTACHLOROPHENOL	1900	U	

nsample 03TP16-0102-01
 samp_date 5/7/2007
 lab_id C7E080110003
 qc_type NM
 units UG/KG
 Pct_Solids 85.0
 DUP_OF:

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	390	U	
PHENOL	390	U	
PYRENE	390	U	

PROJ_NO: 2192

SDG: C7E080110 MEDIA: SOIL DATA FRACTION: OS

nsample	03TP17-0304-01
samp_date	5/7/2007
lab_id	C7E080110004
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

nsample	03TP17-0304-01
samp_date	5/7/2007
lab_id	C7E080110004
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

nsample	03TP17-0304-01
samp_date	5/7/2007
lab_id	C7E080110004
qc_type	NM
units	UG/KG
Pct_Solids	83.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,1-BIPHENYL	400	U	
1,2,4,5-TETRACHLOROBENZENE	400	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	400	U	
2,3,4,6-TETRACHLOROPHENOL	400	U	
2,4,5-TRICHLOROPHENOL	400	U	
2,4,6-TRICHLOROPHENOL	400	U	
2,4-DICHLOROPHENOL	400	U	
2,4-DIMETHYLPHENOL	400	U	
2,4-DINITROPHENOL	1900	U	
2,4-DINITROTOLUENE	400	U	
2,6-DINITROTOLUENE	400	U	
2-CHLORONAPHTHALENE	400	U	
2-CHLOROPHENOL	400	U	
2-METHYLNAPHTHALENE	400	U	
2-METHYLPHENOL	400	U	
2-NITROANILINE	1900	U	
2-NITROPHENOL	400	U	
3,3'-DICHLOROBENZIDINE	1900	U	
3-NITROANILINE	1900	U	
4,6-DINITRO-2-METHYLPHENOL	1900	U	
4-BROMOPHENYL PHENYL ETHER	400	U	
4-CHLORO-3-METHYLPHENOL	400	U	
4-CHLOROANILINE	400	U	
4-CHLOROPHENYL PHENYL ETHER	400	U	
4-METHYLPHENOL	400	U	
4-NITROANILINE	1900	U	
4-NITROPHENOL	1900	U	
ACENAPHTHENE	400	U	
ACENAPHTHYLENE	400	U	
ACETOPHENONE	400	U	
ANTHRACENE	400	U	
ATRAZINE	400	U	

Parameter	Result	Val Qual	Qual Code
BENZALDEHYDE	400	U	
BENZO(A)ANTHRACENE	400	U	
BENZO(A)PYRENE	400	U	
BENZO(B)FLUORANTHENE	400	U	
BENZO(G,H,I)PERYLENE	400	U	
BENZO(K)FLUORANTHENE	400	U	
BIS(2-CHLOROETHOXY)METHANE	400	U	
BIS(2-CHLOROETHYL)ETHER	400	U	
BIS(2-ETHYLHEXYL)PHTHALATE	400	U	
BUTYL BENZYL PHTHALATE	400	U	
CAPROLACTAM	400	U	
CARBAZOLE	400	U	
CHRYSENE	400	U	
DIBENZO(A,H)ANTHRACENE	400	U	
DIBENZOFURAN	400	U	
DIETHYL PHTHALATE	400	U	
DIMETHYL PHTHALATE	400	U	
DI-N-BUTYL PHTHALATE	400	U	
DI-N-OCTYL PHTHALATE	400	U	
FLUORANTHENE	400	U	
FLUORENE	400	U	
HEXACHLOROBENZENE	400	U	
HEXACHLOROBUTADIENE	400	U	
HEXACHLOROCYCLOPENTADIENE	1900	U	
HEXACHLOROETHANE	400	U	
INDENO(1,2,3-CD)PYRENE	400	U	
ISOPHORONE	400	U	
NAPHTHALENE	400	U	
NITROBENZENE	400	U	
N-NITROSO-DI-N-PROPYLAMINE	400	U	
N-NITROSODIPHENYLAMINE	400	U	
PENTACHLOROPHENOL	1900	U	

Parameter	Result	Val Qual	Qual Code
PHENANTHRENE	400	U	
PHENOL	400	U	
PYRENE	50	J	P

PROJ_NO: 2192

SDG: C7E080110 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	03-DUP-02
samp_date	5/7/2007
lab_id	C7E080110005
qc_type	NM
units	UG/KG
Pct_Solids	86.0
DUP_OF:	03TP16-0102-01

nsample	03TP15-0405-01
samp_date	5/7/2007
lab_id	C7E080110002
qc_type	NM
units	UG/KG
Pct_Solids	82.0
DUP_OF:	

nsample	03TP16-0102-01
samp_date	5/7/2007
lab_id	C7E080110003
qc_type	NM
units	UG/KG
Pct_Solids	85.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2	U	
4,4'-DDE	2	U	
4,4'-DDT	2	U	
ALDRIN	0.69	J	P
ALPHA-BHC	2	U	
ALPHA-CHLORDANE	2	U	
AROCLOR-1016	19	U	
AROCLOR-1221	19	U	
AROCLOR-1232	19	U	
AROCLOR-1242	19	U	
AROCLOR-1248	19	U	
AROCLOR-1254	19	U	
AROCLOR-1260	19	U	
AROCLOR-1262	19	U	
AROCLOR-1268	19	U	
BETA-BHC	2	U	
DELTA-BHC	2	U	
DIELDRIN	5.6	J	G
ENDOSULFAN I	2	U	
ENDOSULFAN II	2	U	
ENDOSULFAN SULFATE	2	U	
ENDRIN	2	U	
ENDRIN ALDEHYDE	2	U	
ENDRIN KETONE	2	U	
GAMMA-BHC (LINDANE)	2	U	
GAMMA-CHLORDANE	2	U	
HEPTACHLOR	2	U	
HEPTACHLOR EPOXIDE	2	U	
METHOXYCHLOR	3.8	U	
TOXAPHENE	78	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2.1	U	
4,4'-DDE	2.1	U	
4,4'-DDT	2.1	U	
ALDRIN	2.1	U	
ALPHA-BHC	2.1	U	
ALPHA-CHLORDANE	2.1	U	
AROCLOR-1016	20	U	
AROCLOR-1221	20	U	
AROCLOR-1232	20	U	
AROCLOR-1242	20	U	
AROCLOR-1248	20	U	
AROCLOR-1254	20	U	
AROCLOR-1260	20	U	
AROCLOR-1262	20	U	
AROCLOR-1268	20	U	
BETA-BHC	2.1	U	
DELTA-BHC	2.1	U	
DIELDRIN	0.28	J	PU
ENDOSULFAN I	1.1	J	PU
ENDOSULFAN II	0.7	J	PU
ENDOSULFAN SULFATE	2.1	U	
ENDRIN	2.1	U	
ENDRIN ALDEHYDE	2.1	U	
ENDRIN KETONE	2.1	U	
GAMMA-BHC (LINDANE)	2.1	U	
GAMMA-CHLORDANE	2.1	U	
HEPTACHLOR	2.1	U	
HEPTACHLOR EPOXIDE	2.1	U	
METHOXYCHLOR	4	U	
TOXAPHENE	82	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2	U	
4,4'-DDE	2	U	
4,4'-DDT	2	U	
ALDRIN	0.27	J	PU
ALPHA-BHC	2	U	
ALPHA-CHLORDANE	2	U	
AROCLOR-1016	20	U	
AROCLOR-1221	20	U	
AROCLOR-1232	20	U	
AROCLOR-1242	20	U	
AROCLOR-1248	20	U	
AROCLOR-1254	20	U	
AROCLOR-1260	20	U	
AROCLOR-1262	20	U	
AROCLOR-1268	20	U	
BETA-BHC	2	U	
DELTA-BHC	2	U	
DIELDRIN	25	J	G
ENDOSULFAN I	2	U	
ENDOSULFAN II	0.49	J	PU
ENDOSULFAN SULFATE	2	U	
ENDRIN	2	U	
ENDRIN ALDEHYDE	2	U	
ENDRIN KETONE	2	U	
GAMMA-BHC (LINDANE)	2	U	
GAMMA-CHLORDANE	2	U	
HEPTACHLOR	2	U	
HEPTACHLOR EPOXIDE	2	U	
METHOXYCHLOR	3.9	U	
TOXAPHENE	79	U	

PROJ_NO: 2192

SDG: C7E080110 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample 03TP17-0304-01

samp_date 5/7/2007

lab_id C7E080110004

qc_type NM

units UG/KG

Pct_Solids 83.0

DUP_OF:

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2	U	
4,4'-DDE	2	U	
4,4'-DDT	2	U	
ALDRIN	2	U	
ALPHA-BHC	2	U	
ALPHA-CHLORDANE	2	U	
AROCLOL-1016	20	U	
AROCLOL-1221	20	U	
AROCLOL-1232	20	U	
AROCLOL-1242	20	U	
AROCLOL-1248	20	U	
AROCLOL-1254	20	U	
AROCLOL-1260	20	U	
AROCLOL-1262	20	U	
AROCLOL-1268	20	U	
BETA-BHC	2	U	
DELTA-BHC	2	U	
DIELDRIN	4		
ENDOSULFAN I	2	U	
ENDOSULFAN II	2	U	
ENDOSULFAN SULFATE	2	U	
ENDRIN	2	U	
ENDRIN ALDEHYDE	2	U	
ENDRIN KETONE	2	U	
GAMMA-BHC (LINDANE)	2	U	
GAMMA-CHLORDANE	2	U	
HEPTACHLOR	2	U	
HEPTACHLOR EPOXIDE	2	U	
METHOXYCHLOR	4	U	
TOXAPHENE	81	U	

Data Qualifier Key:

- B - Positive result is considered to be an artifact of blank contamination and should not be considered present.
- J - Value is considered estimated due to exceedance of technical quality control or because result is less than the Contract Required Quantitation Limit (CRQL).
- K - Positive result is considered biased high due to exceedance of technical quality control criteria.
- L - Positive result is considered biased low due to exceedance of technical quality control criteria.
- U - Value is a non-detected result as reported by the laboratory.
- UL - Non-detected result is considered biased low due to exceedance of technical quality control criteria.
- UR - Non-detected result is considered unusable due to exceedance of technical quality control criteria.

Qualifier Codes:

- a = Lab Blank Contamination
- b = Field Blank Contamination
- c = Calibration (i.e., %RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
- d = MS/MSD Noncompliance
- e = LSC/LSCD Noncompliance
- f = Laboratory Duplicate Imprecision
- g = Field Duplicate Imprecision
- h = Holding Time Exceedance
- i = ICP Serial Dilution Noncompliance
- j = GFAA PDS – GFAA MSA's $r < 0.995$ (correlation coefficient)
- k = ICP Interference – include ICSAB %Rs
- l = Instrument Calibration Range Exceedance
- m = Sample Preservation
- n = Internal Standard Noncompliance
- o = Poor Instrument Performance (i.e. baseline drifting)
- p = Uncertainty Near Detection Limit (<2 x IDL for inorganics and < CRQL for organics)
- q = Other Problems (can encompass of number of issues)
- r = Surrogates Recovery Noncompliance
- s = Pesticide/PCB Resolution
- t = % Breakdown Noncompliance for DDT and Endrin
- u = Pesticide/PCB % Difference Between Columns for Positive Results
- v = Non-linear Calibrations, Tuning $r < 0.995$ (correlation coefficient)

APPENDIX B
Laboratory Analytical Results

Tetra Tech NUS, Inc

Client Sampl ID: 03-DUP-02

GC/MS Volatiles

Lot-Sample #....: C7E080110-005 Work Order #....: JWF9C1AM Matrix.....: SOLID
 Dat Sampled....: 05/07/07 Date Received...: 05/08/07 MS Run #.....: 7131136
 Prep Date.....: 05/11/07 Analysis Date...: 05/11/07
 Prep Batch #....: 7131197 Analysis Time...: 10:13
 Dilution Factor: 0.97 Initial Wgt/Vol: 5.15 g Final Wgt/Vol...: 5 mL
 % Moisture.....: 14 Analyst ID.....: 034635 Instrument ID...: HP4
 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Bromochloromethane	ND	5.6	ug/kg	1.3
Chlorodibromomethane	ND	5.6	ug/kg	1.0
c-Xylene	ND	5.6	ug/kg	1.2
m-Xylene & p-Xylene	ND	11	ug/kg	2.8
1,2,3-Trichlorobenzene	ND	5.6	ug/kg	1.3
Acetone	ND	22	ug/kg	5.6
Benzene	ND	5.6	ug/kg	1.2
Bromodichloromethane	ND	5.6	ug/kg	1.1
Bromoform	ND	5.6	ug/kg	1.1
Bromomethane	ND	5.6	ug/kg	1.4
2-Butanone	ND	5.6	ug/kg	1.1
Carbon disulfide	ND	5.6	ug/kg	1.4
Carbon tetrachloride	ND	5.6	ug/kg	1.0
Chlorobenzene	ND	5.6	ug/kg	1.2
Chloroethane	ND	5.6	ug/kg	1.6
Chloroform	ND	5.6	ug/kg	1.2
Chloromethane	ND	5.6	ug/kg	1.2
Cyclohexane	ND	5.6	ug/kg	1.1
1,2-Dibromo-3-chloropropane	ND	5.6	ug/kg	0.94
1,2-Dibromoethane	ND	5.6	ug/kg	1.2
1,3-Dichlorobenzene	ND	5.6	ug/kg	1.2
1,4-Dichlorobenzene	ND	5.6	ug/kg	1.2
1,2-Dichlorobenzene	ND	5.6	ug/kg	1.2
Dichlorodifluoromethane	ND	5.6	ug/kg	1.4
1,1-Dichloroethane	ND	5.6	ug/kg	1.1
1,2-Dichloroethane	ND	5.6	ug/kg	1.2
1,1-Dichloroethene	ND	5.6	ug/kg	1.3
cis-1,2-Dichloroethene	ND	5.6	ug/kg	1.2
trans-1,2-Dichloroethene	ND	5.6	ug/kg	1.3
1,2-Dichloropropane	ND	5.6	ug/kg	1.2
cis-1,3-Dichloropropene	ND	5.6	ug/kg	1.0
trans-1,3-Dichloropropene	ND	5.6	ug/kg	0.98
Ethylbenzene	ND	5.6	ug/kg	1.3
2-Hexanone	ND	5.6	ug/kg	0.89
Isopropylbenzene	ND	5.6	ug/kg	1.2
Methyl acetate	ND	5.6	ug/kg	1.2

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03-DUP-02

GC/MS Volatiles

Lot-Sample #....: C7E080110-005 Work Order #....: JWF9C1AM Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methylene chloride	4.0 J,B	5.6	ug/kg	0.86
Methylcyclohexane	ND	5.6	ug/kg	1.3
4-Methyl-2-pentanone	ND	5.6	ug/kg	0.97
Methyl tert-butyl ether	ND	5.6	ug/kg	1.0
Styrene	ND	5.6	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	1.3
1,2,4-Trichloro- benzene	ND	5.6	ug/kg	1.2
Tetrachloroethylene	ND	5.6	ug/kg	1.5
1,1,1-Trichloroethane	ND	5.6	ug/kg	1.1
1,1,2-Trichloroethane	ND	5.6	ug/kg	1.2
Trichloroethene	ND	5.6	ug/kg	1.3
Trichlorofluoromethane	ND	5.6	ug/kg	1.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.6	ug/kg	1.4
Toluene	ND	5.6	ug/kg	0.89
Vinyl chloride	ND	5.6	ug/kg	1.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	71	(70 - 130)
Toluene-d8	94	(85 - 115)
4-Bromofluorobenzene	85	(85 - 120)
Dibromofluoromethane	80	(70 - 130)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP15-0405-01

GC/MS Volatiles

Lot-Sample #....:	C7E080110-002	Work Order #....:	JWF851AC	Matrix.....:	SOLID
Date Sampled....:	05/07/07	Date Received...:	05/08/07	MS Run #.....:	7130078
Prep Date.....:	05/10/07	Analysis Date...:	05/10/07		
Prep Batch #....:	7130081	Analysis Time...:	15:21		
Dilution Factor:	0.85	Initial Wgt/Vol:	5.89 g	Final Wgt/Vol..:	5 mL
% Moisture.....:	18	Analyst ID.....:	010099	Instrument ID..:	HP4
		Method.....:	SW846 8260B		

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Bromochloromethane	ND	5.2	ug/kg	1.2
Chlorodibromomethane	ND	5.2	ug/kg	0.96
o-Xylene	ND	5.2	ug/kg	1.1
m-Xylene & p-Xylene	ND	10	ug/kg	2.6
1,2,3-Trichlorobenzene	ND	5.2	ug/kg	1.2
Acetone	ND	21	ug/kg	5.2
Benzene	ND	5.2	ug/kg	1.1
Bromodichloromethane	ND	5.2	ug/kg	1.0
Bromoform	ND	5.2	ug/kg	1.1
Bromomethane	ND	5.2	ug/kg	1.3
2-Butanone	ND	5.2	ug/kg	1.0
Carbon disulfide	ND	5.2	ug/kg	1.3
Carbon tetrachloride	ND	5.2	ug/kg	0.92
Chlorobenzene	ND	5.2	ug/kg	1.1
Chloroethane	ND	5.2	ug/kg	1.5
Chloroform	ND	5.2	ug/kg	1.1
Chloromethane	ND	5.2	ug/kg	1.1
Cyclohexane	ND	5.2	ug/kg	1.0
1,2-Dibromo-3-chloropropane	ND	5.2	ug/kg	0.87
1,2-Dibromoethane	ND	5.2	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.2	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.2	ug/kg	1.1
1,2-Dichlorobenzene	ND	5.2	ug/kg	1.1
Dichlorodifluoromethane	ND	5.2	ug/kg	1.3
1,1-Dichloroethane	ND	5.2	ug/kg	1.0
1,2-Dichloroethane	ND	5.2	ug/kg	1.1
1,1-Dichloroethene	ND	5.2	ug/kg	1.2
cis-1,2-Dichloroethene	ND	5.2	ug/kg	1.1
trans-1,2-Dichloroethene	ND	5.2	ug/kg	1.2
1,2-Dichloropropane	ND	5.2	ug/kg	1.1
cis-1,3-Dichloropropene	ND	5.2	ug/kg	0.93
trans-1,3-Dichloropropene	ND	5.2	ug/kg	0.90
Ethylbenzene	ND	5.2	ug/kg	1.2
2-Hexanone	ND	5.2	ug/kg	0.82
Isopropylbenzene	ND	5.2	ug/kg	1.1
Methyl acetate	ND	5.2	ug/kg	1.1

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Tetra Tech NUS, Inc

Client Sample ID: 03TP15-0405-01

GC/MS Volatiles

Lot-Sample #....: C7E080110-002 Work Order #....: JWP851AC Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Methylene chloride	6.8 B	5.2	ug/kg	0.79
Methylcyclohexane	ND	5.2	ug/kg	1.2
4-Methyl-2-pentanone	ND	5.2	ug/kg	0.90
Methyl tert-butyl ether	ND	5.2	ug/kg	0.96
Styrene	ND	5.2	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	1.2
1,2,4-Trichloro- benzene	ND	5.2	ug/kg	1.1
Tetrachloroethene	ND	5.2	ug/kg	1.3
1,1,1-Trichloroethane	ND	5.2	ug/kg	1.1
1,1,2-Trichloroethane	ND	5.2	ug/kg	1.1
Trichloroethene	ND	5.2	ug/kg	1.2
Trichlorofluoromethane	ND	5.2	ug/kg	1.7
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.2	ug/kg	1.3
Toluene	ND	5.2	ug/kg	0.82
Vinyl chloride	ND	5.2	ug/kg	1.2
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
1,2-Dichloroethane-d4	91	(70 - 130)		
Toluene-d8	96	(85 - 115)		
4-Bromofluorobenzene	93	(85 - 120)		
Dibromofluoromethane	91	(70 - 130)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP16-0102-01

GC/MS Volatiles

Lot-Sample #....: C7E080110-003	Work Order #....: JWF891AM	Matrix.....: SOLID
Date Sampled....: 05/07/07	Date Received...: 05/08/07	MS Run #.....: 7131136
Prep Date.....: 05/11/07	Analysis Date...: 05/11/07	
Prep Batch #....: 7131197	Analysis Time...: 14:42	
Dilution Factor: 0.89	Initial Wgt/Vol: 5.62 g	Final Wgt/Vol...: 5 mL
% Moisture.....: 15	Analyst ID.....: 034635	Instrument ID..: HP4
	Method.....: SW846 8260B	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Bromochloromethane	ND	5.2	ug/kg	1.2
Chlorodibromomethane	ND	5.2	ug/kg	0.97
o-Xylen	ND	5.2	ug/kg	1.1
m-Xylene & p-Xylene	ND	10	ug/kg	2.6
1,2,3-Trichlorobenzene	ND	5.2	ug/kg	1.2
Acetone	ND	21	ug/kg	5.2
Benzene	ND	5.2	ug/kg	1.1
Bromodichloromethane	ND	5.2	ug/kg	1.0
Bromoform	ND	5.2	ug/kg	1.1
Bromomethane	ND	5.2	ug/kg	1.3
2-Butanone	ND	5.2	ug/kg	1.0
Carbon disulfide	ND	5.2	ug/kg	1.3
Carbon t trachloride	ND	5.2	ug/kg	0.93
Chlorobenzene	ND	5.2	ug/kg	1.2
Chloroethane	ND	5.2	ug/kg	1.5
Chloroform	ND	5.2	ug/kg	1.1
Chloromethane	ND	5.2	ug/kg	1.2
Cyclohexane	ND	5.2	ug/kg	1.0
1,2-Dibromo-3-chloro-propane.	ND	5.2	ug/kg	0.88
1,2-Dibromoethane	ND	5.2	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.2	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.2	ug/kg	1.2
1,2-Dichlorobenzene	ND	5.2	ug/kg	1.1
Dichlorodifluoromethane	ND	5.2	ug/kg	1.3
1,1-Dichloroethane	ND	5.2	ug/kg	1.0
1,2-Dichloroethane	ND	5.2	ug/kg	1.1
1,1-Dichloroethene	ND	5.2	ug/kg	1.2
cis-1,2-Dichloroethene	ND	5.2	ug/kg	1.1
trans-1,2-Dichloroethene	ND	5.2	ug/kg	1.2
1,2-Dichloropropane	ND	5.2	ug/kg	1.2
cis-1,3-Dichloropropene	ND	5.2	ug/kg	0.94
trans-1,3-Dichloropropene	ND	5.2	ug/kg	0.91
Ethylbenzene	ND	5.2	ug/kg	1.2
2-Hexanone	ND	5.2	ug/kg	0.83
Isopropylbenzene	ND	5.2	ug/kg	1.1
Methyl acetate	ND	5.2	ug/kg	1.1

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Tetra Tech NUS, Inc

Client Sample ID: 03TP16-0102-01

GC/MS Volatiles

Lot-Sample #....: C7E080110-003 Work Order #....: JWF891AM Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Methylene chloride	3.0 J,B	5.2	ug/kg	0.80
Methylcyclohexane	ND	5.2	ug/kg	1.2
4-Methyl-2-pentanone	ND	5.2	ug/kg	0.91
Methyl tert-butyl ether	ND	5.2	ug/kg	0.96
Styrene	ND	5.2	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	1.2
1,2,4-Trichloro-benzene	ND	5.2	ug/kg	1.1
T trachloroethene	ND	5.2	ug/kg	1.4
1,1,1-Trichloroethane	ND	5.2	ug/kg	1.1
1,1,2-Trichloroethane	ND	5.2	ug/kg	1.1
Trichloroethene	ND	5.2	ug/kg	1.2
Trichlorofluoromethane	ND	5.2	ug/kg	1.7
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.2	ug/kg	1.3
Toluene	ND	5.2	ug/kg	0.83
Vinyl chloride	ND	5.2	ug/kg	1.2
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
		(70 - 130)	(85 - 115)	(85 - 120)
1,2-Dichloroethane-d4	82			
Toluene-d8	100			
4-Bromofluorobenzene	93			
Dibromofluoromethane	87			

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: 03TP17-0304-01

GC/MS Volatiles

Lot-Sample #....: C7E080110-004	Work Order #....: JWF9A1AM	Matrix.....: SOLID
Date Sampled....: 05/07/07	Date Received...: 05/08/07	MS Run #.....: 7131136
Prep Date.....: 05/11/07	Analysis Date...: 05/11/07	
Prep Batch #....: 7131197	Analysis Time...: 15:06	
Dilution Factor: 0.9	Initial Wgt/Vol: 5.59 g	Final Wgt/Vol...: 5 mL
% Moisture.....: 17	Analyst ID....: 034635	Instrument ID..: HP4
	Method.....: SW846 8260B	

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Bromochloromethane	ND	5.4	ug/kg	1.3
Chlorodibromomethane	ND	5.4	ug/kg	1.0
o-Xylene	ND	5.4	ug/kg	1.1
m-Xylene & p-Xylene	ND	11	ug/kg	2.7
1,2,3-Trichlorobenzene	ND	5.4	ug/kg	1.2
Acetone	ND	22	ug/kg	5.4
Benzene	ND	5.4	ug/kg	1.1
Bromodichloromethane	ND	5.4	ug/kg	1.1
Bromoform	ND	5.4	ug/kg	1.1
Bromomethane	ND	5.4	ug/kg	1.4
2-Butanone	ND	5.4	ug/kg	1.1
Carbon disulfide	ND	5.4	ug/kg	1.3
Carbon tetrachloride	ND	5.4	ug/kg	0.97
Chlorobenzene	ND	5.4	ug/kg	1.2
Chloroethane	ND	5.4	ug/kg	1.6
Chloroform	ND	5.4	ug/kg	1.1
Chloromethane	ND	5.4	ug/kg	1.2
Cyclohexane	ND	5.4	ug/kg	1.1
1,2-Dibromo-3-chloropropane	ND	5.4	ug/kg	0.91
1,2-Dibromoethane	ND	5.4	ug/kg	1.1
1,3-Dichlorobenzene	ND	5.4	ug/kg	1.1
1,4-Dichlorobenzene	ND	5.4	ug/kg	1.2
1,2-Dichlorobenzene	ND	5.4	ug/kg	1.2
Dichlorodifluoromethane	ND	5.4	ug/kg	1.4
1,1-Dichloroethane	ND	5.4	ug/kg	1.1
1,2-Dichloroethane	ND	5.4	ug/kg	1.2
1,1-Dichloroethene	ND	5.4	ug/kg	1.3
cis-1,2-Dichloroethene	ND	5.4	ug/kg	1.2
trans-1,2-Dichloroethene	ND	5.4	ug/kg	1.3
1,2-Dichloropropane	ND	5.4	ug/kg	1.2
cis-1,3-Dichloropropene	ND	5.4	ug/kg	0.97
trans-1,3-Dichloropropene	ND	5.4	ug/kg	0.94
Ethylbenzene	ND	5.4	ug/kg	1.3
2-Hexanone	ND	5.4	ug/kg	0.86
Isopropylbenzene	ND	5.4	ug/kg	1.2
Methyl acetate	ND	5.4	ug/kg	1.1

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Tetra Tech NUS, Inc

Client Sample ID: 03TP17-0304-01

GC/MS Volatiles

Lot-Sample #....: C7E080110-004 Work Order #....: JWF9A1AM Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		MDL
		LIMIT	UNITS	
Methylene chloride	3.4 J,B	5.4	ug/kg	0.83
Methylcyclohexane	ND	5.4	ug/kg	1.2
4-Methyl-2-pentanone	ND	5.4	ug/kg	0.94
Methyl tert-butyl ether	ND	5.4	ug/kg	1.0
Styrene	ND	5.4	ug/kg	1.2
1,1,2,2-Tetrachloroethane	ND	5.4	ug/kg	1.2
1,2,4-Trichloro- benzene	ND	5.4	ug/kg	1.1
Tetrachloroethene	ND	5.4	ug/kg	1.4
1,1,1-Trichloroethane	ND	5.4	ug/kg	1.1
1,1,2-Trichloroethane	ND	5.4	ug/kg	1.2
Trichloroethene	ND	5.4	ug/kg	1.2
Trichlorofluoromethane	ND	5.4	ug/kg	1.8
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.4	ug/kg	1.3
Toluene	ND	5.4	ug/kg	0.86
Vinyl chloride	ND	5.4	ug/kg	1.2
SURROGATE	PERCENT RECOVERY	RECOVERY		LIMITS
		LIMITS		
1,2-Dichloroethane-d4	83	(70 - 130)		
Toluene-d8	105	(85 - 115)		
4-Bromofluorobenzene	96	(85 - 120)		
Dibromofluoromethane	91	(70 - 130)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Tetra Tech NUS, Inc

Client Sample ID: TB-050707

GC/MS Volatiles

Lot-Sample #....: C7E080110-001 Work Order #....: JWF831AA Matrix.....: WATER
 Date Sampled....: 05/07/07 Date Received...: 05/08/07 MS Run #.....: 7136324
 Prep Dat: 05/16/07 Analysis Date...: 05/16/07
 Prep Batch #....: 7136629 Analysis Time...: 19:59
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Analyst ID.....: 402467 Instrument ID...: HP7
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Chlorodibromomethane	ND	5.0	ug/L	0.50
o-Xylene	ND	5.0	ug/L	0.89
m-Xylene & p-Xylene	ND	10	ug/L	1.6
1,2,3-Trichlorobenzene	ND	5.0	ug/L	0.33
Bromoform	ND	5.0	ug/L	0.96
Acetone	ND	20	ug/L	5.0
Benzene	ND	5.0	ug/L	0.81
Bromodichloromethane	ND	5.0	ug/L	0.58
Bromomethane	ND	5.0	ug/L	0.75
2-Butanone	ND	5.0	ug/L	0.73
Carbon disulfide	ND	5.0	ug/L	1.1
Carbon tetrachloride	ND	5.0	ug/L	0.91
Chlorobenzene	ND	5.0	ug/L	0.71
Chloroethane	ND	5.0	ug/L	1.2
Chloroform	ND	5.0	ug/L	0.78
Chloromethane	ND	5.0	ug/L	0.87
Cyclohexane	ND	5.0	ug/L	1.1
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.3
1,2-Dibromoethane	ND	5.0	ug/L	0.64
1,3-Dichlorobenzene	ND	5.0	ug/L	0.66
1,4-Dichlorobenzene	ND	5.0	ug/L	0.60
1,2-Dichlorobenzene	ND	5.0	ug/L	0.65
Dichlorodifluoromethane	ND	5.0	ug/L	1.0
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	0.64
1,1-Dichloroethene	ND	5.0	ug/L	0.87
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.0
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.90
1,2-Dichloropropane	ND	5.0	ug/L	0.67
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.79
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.57
Ethylbenzene	ND	5.0	ug/L	0.58
2-Hexanone	ND	5.0	ug/L	0.45
Isopropylbenzene	ND	5.0	ug/L	0.72
Methyl acetate	ND	5.0	ug/L	0.47

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Tetra Tech NUS, Inc

Client Sample ID: TB-050707

GC/MS Volatiles

Lot-Sample #....: C7E080110-001 Work Order #....: JWF831AA Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Methylene chloride	ND	5.0	ug/L	0.75
Methylcyclohexane	ND	5.0	ug/L	1.1
4-Methyl-2-pentanone	ND	5.0	ug/L	0.46
Methyl tert-butyl ether	ND	5.0	ug/L	0.77
Styrene	ND	5.0	ug/L	0.80
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	0.63
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.42
Tetrachloroethene	ND	5.0	ug/L	0.57
1,1,1-Trichloroethane	ND	5.0	ug/L	0.79
1,1,2-Trichloroethane	ND	5.0	ug/L	0.79
Trichloroethene	ND	5.0	ug/L	0.88
Trichlorofluoromethane	ND	5.0	ug/L	0.80
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.0	ug/L	1.2
Toluene	ND	5.0	ug/L	0.80
Vinyl chloride	ND	5.0	ug/L	0.94

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
1,2-Dichloroethane-d4	104	(70 - 120)
Toluene-d8	100	(85 - 120)
4-Bromofluorobenzene	97	(75 - 120)
Dibromofluoromethane	110	(85 - 115)

Tetra Tech NUS, Inc

Client Sample ID: 03-DUP-02

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-005 Work Order #....: JWF9C1AN Matrix.....: SOLID
 Date Sampled...: 05/07/07 16:50 Date Received...: 05/08/07 09:55 MS Run #....: 7131004
 Prep Date.....: 05/11/07 Analysis Date...: 05/28/07
 Prep Batch #...: 7131012 Analysis Time...: 11:42
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL
 * Moisture.....: 14 Analyst ID.....: 007062 Instrument ID...: 722
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro- benzene	ND	380	ug/kg	23
2,3,4,6-Tetrachlorophenol	ND	380	ug/kg	27
Acenaphthene	ND	380	ug/kg	30
Acenaphthylene	ND	380	ug/kg	35
Acetophenone	ND	380	ug/kg	57
Anthracene	ND	380	ug/kg	37
Atrazine	ND	380	ug/kg	55
Benzo(a)anthracene	ND	380	ug/kg	38
Benzo(a)pyrene	ND	380	ug/kg	35
Benzo(b)fluoranthene	ND	380	ug/kg	52
Benzo(ghi)perylene	ND	380	ug/kg	33
Benzo(k)fluoranthene	ND	380	ug/kg	49
Benzaldehyde	ND	380	ug/kg	79
1,1'-Biphenyl	ND	380	ug/kg	44
bis(2-Chloroethoxy) methane	ND	380	ug/kg	43
bis(2-Chloroethyl)- ether	ND	380	ug/kg	44
bis(2-Ethylhexyl) phthalate	ND	380	ug/kg	37
4-Bromophenyl phenyl ether	ND	380	ug/kg	32
Butyl benzyl phthalate	ND	380	ug/kg	41
Caprolactam	ND	380	ug/kg	55
Carbazole	ND	380	ug/kg	34
4-Chloroaniline	ND	380	ug/kg	26
4-Chloro-3-methylphenol	ND	380	ug/kg	33
2-Chloronaphthalene	ND	380	ug/kg	34
2-Chlorophenol	ND	380	ug/kg	66
4-Chlorophenyl phenyl ether	ND	380	ug/kg	27
Chrysene	ND	380	ug/kg	37
Dibenz(a,h)anthracene	ND	380	ug/kg	25
Dibenzofuran	ND	380	ug/kg	36
3,3'-Dichlorobenzidine	ND	1900	ug/kg	23
2,4-Dichlorophenol	ND	380	ug/kg	40

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03-DUP-02

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-005 Work Order #....: JWF9C1AN Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diethyl phthalate	ND	380	ug/kg	35
2,4-Dimethylphenol	ND	380	ug/kg	33
Dimethyl phthalate	ND	380	ug/kg	31
Di-n-butyl phthalate	ND	380	ug/kg	34
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg	25
2,4-Dinitrophenol	ND	1900	ug/kg	580
2,4-Dinitrotoluene	ND	380	ug/kg	35
2,6-Dinitrotoluene	ND	380	ug/kg	29
Di-n-octyl phthalate	ND	380	ug/kg	33
Fluoranthene	ND	380	ug/kg	36
Fluorene	ND	380	ug/kg	33
Hexachlorobenzene	ND	380	ug/kg	31
Hexachlorobutadiene	ND	380	ug/kg	53
Hexachlorocyclopenta- diene	ND	1900	ug/kg	26
Hexachloroethane	ND	380	ug/kg	53
Indeno(1,2,3-cd)pyrene	ND	380	ug/kg	27
Isophorone	ND	380	ug/kg	50
2-Methylnaphthalene	ND	380	ug/kg	40
2-Methylphenol	ND	380	ug/kg	56
4-Methylphenol	ND	380	ug/kg	86
Naphthalene	ND	380	ug/kg	39
2-Nitroaniline	ND	1900	ug/kg	36
3-Nitroaniline	ND	1900	ug/kg	36
4-Nitroaniline	ND	1900	ug/kg	22
Nitrobenzene	ND	380	ug/kg	48
2-Nitrophenol	ND	380	ug/kg	52
4-Nitrophenol	ND	1900	ug/kg	27
N-Nitrosodi-n-propyl- amine	ND	380	ug/kg	38
N-Nitrosodiphenylamine	ND	380	ug/kg	43
2,2'-oxybis(1-Chloropropane)	ND	380	ug/kg	62
Pentachlorophenol	ND	1900	ug/kg	26
Phenanthrene	ND	380	ug/kg	36
Phenol	ND	380	ug/kg	42
Pyrene	ND	380	ug/kg	42
2,4,5-Trichloro- phenol	ND	380	ug/kg	37
2,4,6-Trichloro- phenol	ND	380	ug/kg	27

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03-DUP-02

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-005 Work Order #....: JWF9C1AN

Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	54	(45 - 105)
2-Fluorophenol	54	(35 - 105)
Phenol-d5	54	(40 - 100)
2,4,6-Tribromophenol	47	(35 - 125)
Nitrobenzene-d5	51	(35 - 100)
Terphenyl-d14	111	(30 - 125)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP15-0405-01

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-002 Work Order #....: JWF861AD Matrix.....: SOLID
 Date Sampled....: 05/07/07 09:50 Date Received...: 05/08/07 09:55 MS Run #.....: 7131004
 Prep Date.....: 05/11/07 Analysis Date...: 05/28/07
 Prep Batch #....: 7131012 Analysis Time...: 09:19
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 18 Analyst ID.....: 007062 Instrument ID...: 722
 Method.....: SW846 8270C

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,2,4,5-Tetrachloro-benzene	ND	400	ug/kg	24
2,3,4,6-Tetrachlorophenol	ND	400	ug/kg	28
Acenaphthene	ND	400	ug/kg	32
Acenaphthylene	ND	400	ug/kg	37
Acetophenone	ND	400	ug/kg	60
Anthracene	ND	400	ug/kg	38
Atrazine	ND	400	ug/kg	58
Benzo(a)anthracene	ND	400	ug/kg	40
Benzo(a)pyrene	ND	400	ug/kg	37
Benzo(b)fluoranthene	ND	400	ug/kg	54
Benzo(ghi)perylene	ND	400	ug/kg	35
Benzo(k)fluoranthene	ND	400	ug/kg	52
Benzaldehyde	ND	400	ug/kg	83
1,1'-Biphenyl	ND	400	ug/kg	46
bis(2-Chloroethoxy)-methane	ND	400	ug/kg	45
bis(2-Chloroethyl)-ether	ND	400	ug/kg	46
bis(2-Ethylhexyl)phthalate	ND	400	ug/kg	39
4-Bromophenyl phenyl ether	ND	400	ug/kg	33
Butyl benzyl phthalate	ND	400	ug/kg	43
Caprolactam	ND	400	ug/kg	58
Carbazole	ND	400	ug/kg	35
4-Chloroaniline	ND	400	ug/kg	27
4-Chloro-3-methylphenol	ND	400	ug/kg	34
2-Chloronaphthalene	ND	400	ug/kg	36
2-Chlorophenol	ND	400	ug/kg	69
4-Chlorophenyl phenyl ether	ND	400	ug/kg	28
Chrysene	ND	400	ug/kg	39
Dibenz(a,h)anthracene	ND	400	ug/kg	27
Dibenzofuran	ND	400	ug/kg	38
3,3'-Dichlorobenzidine	ND	1900	ug/kg	24
2,4-Dichlorophenol	ND	400	ug/kg	42

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP15-0405-01

GC/MS Semivolatiles

Lot-Sample #...: C7E080110-002 Work Order #...: JWF861AD Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Diethyl phthalate	ND	400	ug/kg	37
2,4-Dimethylphenol	ND	400	ug/kg	35
Dimethyl phthalate	ND	400	ug/kg	33
Di-n-butyl phthalate	ND	400	ug/kg	36
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg	26
2,4-Dinitrophenol	ND	1900	ug/kg	610
2,4-Dinitrotoluene	ND	400	ug/kg	36
2,6-Dinitrotoluene	ND	400	ug/kg	30
Di-n-octyl phthalate	ND	400	ug/kg	35
Fluoranthene	ND	400	ug/kg	35
Fluorene	ND	400	ug/kg	37
Hexachlorobenzene	ND	400	ug/kg	35
Hexachlorobutadiene	ND	400	ug/kg	33
Hexachlorocyclopenta- diene	ND	1900	ug/kg	27
Hexachloroethane	ND	400	ug/kg	55
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	28
Isophorone	ND	400	ug/kg	53
2-Methylnaphthalene	ND	400	ug/kg	42
2-Methylphenol	ND	400	ug/kg	59
4-Methylphenol	ND	400	ug/kg	90
Naphthalene	ND	400	ug/kg	41
2-Nitroaniline	ND	1900	ug/kg	38
3-Nitroaniline	ND	1900	ug/kg	38
4-Nitroaniline	ND	1900	ug/kg	23
Nitrobenzene	ND	400	ug/kg	50
2-Nitrophenol	ND	400	ug/kg	55
4-Nitrophenol	ND	1900	ug/kg	28
N-Nitrosodi-n-propyl- amine	ND	400	ug/kg	40
N-Nitrosodiphenylamine	ND	400	ug/kg	45
2,2'-oxybis(1-Chloropropane)	ND	400	ug/kg	66
Pentachlorophenol	ND	1900	ug/kg	28
Phenanthrene	ND	400	ug/kg	38
Phenol	ND	400	ug/kg	44
Pyrene	ND	400	ug/kg	44
2,4,5-Trichloro- phenol	ND	400	ug/kg	39
2,4,6-Trichloro- phenol	ND	400	ug/kg	28

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP15-0405-01

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-002 Work Order #....: JWF861AD Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	66	(45 - 105)
2-Fluorophenol	67	(35 - 105)
Phenol-d5	70	(40 - 100)
2,4,6-Tribromophenol	70	(35 - 125)
Nitrobenzene-d5	60	(35 - 100)
Terphenyl-d14	113	(30 - 125)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP16-0102-01

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-003 Work Order #....: JWF891AN Matrix.....: SOLID
 Date Sampled....: 05/07/07 12:50 Date Received...: 05/08/07 09:55 MS Run #.....: 7131004
 Prep Date.....: 05/11/07 Analysis Date...: 05/28/07
 Prep Batch #....: 7131012 Analysis Time...: 09:47
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 15 Analyst ID.....: 007062 Instrument ID...: 722
 Method.....: SW846 8270C

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,2,4,5-Tetrachloro-benzene	ND	390	ug/kg	23
2,3,4,6-Tetrachlorophenol	ND	390	ug/kg	27
Acenaphthene	ND	390	ug/kg	31
Acenaphthylene	ND	390	ug/kg	36
Acetophenone	ND	390	ug/kg	58
Anthracene	ND	390	ug/kg	37
Atrazine	ND	390	ug/kg	56
Benzo(a)anthracene	ND	390	ug/kg	39
Benzo(a)pyrene	ND	390	ug/kg	35
Benzo(b)fluoranthene	ND	390	ug/kg	52
Benzo(ghi)perylene	ND	390	ug/kg	34
Benzo(k)fluoranthene	ND	390	ug/kg	50
Benzaldehyde	ND	390	ug/kg	80
1,1'-Biphenyl	ND	390	ug/kg	45
bis(2-Chloroethoxy)-methane	ND	390	ug/kg	44
bis(2-Chloroethyl)-ether	ND	390	ug/kg	44
bis(2-Ethylhexyl)phthalate	ND	390	ug/kg	38
4-Bromophenyl phenyl ether	ND	390	ug/kg	32
Butyl benzyl phthalate	ND	390	ug/kg	41
Caprolactam	ND	390	ug/kg	56
Carbazole	ND	390	ug/kg	34
4-Chloroaniline	ND	390	ug/kg	26
4-Chloro-3-methylphenol	ND	390	ug/kg	33
2-Chloronaphthalene	ND	390	ug/kg	35
2-Chlorophenol	ND	390	ug/kg	67
4-Chlorophenyl phenyl ether	ND	390	ug/kg	27
Chrysene	ND	390	ug/kg	38
Dibenz(a,h)anthracene	ND	390	ug/kg	26
Dibenzofuran	ND	390	ug/kg	37
3,3'-Dichlorobenzidine	ND	1900	ug/kg	23
2,4-Dichlorophenol	ND	390	ug/kg	41

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Tetra Tech NUS, Inc

Client Sample ID: 03TP16-0102-01

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-003 Work Order #....: JWF891AN Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Diethyl phthalate	ND	390	ug/kg	36
2,4-Dimethylphenol	ND	390	ug/kg	34
Dimethyl phthalate	ND	390	ug/kg	32
Di-n-butyl phthalate	ND	390	ug/kg	35
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg	25
2,4-Dinitrophenol	ND	1900	ug/kg	590
2,4-Dinitrotoluene	ND	390	ug/kg	35
2,6-Dinitrotoluene	ND	390	ug/kg	29
Di-n-octyl phthalate	ND	390	ug/kg	34
Fluoranthene	ND	390	ug/kg	36
Fluorene	ND	390	ug/kg	34
Hexachlorobenzene	ND	390	ug/kg	32
Hexachlorobutadiene	ND	390	ug/kg	53
Hexachlorocyclopenta- diene	ND	1900	ug/kg	26
Hexachloroethane	ND	390	ug/kg	53
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg	27
Isophorone	ND	390	ug/kg	51
2-Methylnaphthalene	ND	390	ug/kg	40
2-Methylphenol	ND	390	ug/kg	57
4-Methylphenol	ND	390	ug/kg	87
Naphthalene	ND	390	ug/kg	40
2-Nitroaniline	ND	1900	ug/kg	36
3-Nitroaniline	ND	1900	ug/kg	36
4-Nitroaniline	ND	1900	ug/kg	22
Nitrobenzene	ND	390	ug/kg	48
2-Nitrophenol	ND	390	ug/kg	53
4-Nitrophenol	ND	1900	ug/kg	27
N-Nitrosodi-n-propyl- amine	ND	390	ug/kg	39
N-Nitrosodiphenylamine	ND	390	ug/kg	43
2,2'-oxybis(1-Chloropropane)	ND	390	ug/kg	63
Pentachlorophenol	ND	1900	ug/kg	27
Phenanthrene	ND	390	ug/kg	37
Phenol	ND	390	ug/kg	43
Pyrene	ND	390	ug/kg	42
2,4,5-Trichloro- phenol	ND	390	ug/kg	37
2,4,6-Trichloro- phenol	ND	390	ug/kg	27

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Tetra Tech NUS, Inc

Client Sample ID: 03TP16-0102-01

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-003 Work Order #....: JWF891AN Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	69	(45 - 105)
2-Fluorophenol	67	(35 - 105)
Phenol-d5	70	(40 - 100)
2,4,6-Tribromophenol	70	(35 - 125)
Nitrobenzene-d5	63	(35 - 100)
Terphenyl-d14	112	(30 - 125)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP17-0304-01

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-004 Work Order #....: JWF9A1AN Matrix.....: SOLID
 Date Sampled....: 05/07/07 15:10 Date Received...: 05/08/07 09:55 MS Run #.....: 7131004
 Prep Date.....: 05/11/07 Analysis Date...: 05/28/07
 Prep Batch #....: 7131012 Analysis Time...: 11:13
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 0.5 mL
 % Moisture.....: 17 Analyst ID.....: 007062 Instrument ID...: 722
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4,5-Tetrachloro- benzene	ND	400	ug/kg	24
2,3,4,6-Tetrachlorophenol	ND	400	ug/kg	28
Acenaphthene	ND	400	ug/kg	31
Acenaphthylene	ND	400	ug/kg	36
Acetophenone	ND	400	ug/kg	59
Anthracene	ND	400	ug/kg	38
Atrazine	ND	400	ug/kg	57
Benzo(a)anthracene	ND	400	ug/kg	40
Benzo(a)pyrene	ND	400	ug/kg	36
Benzo(b)fluoranthene	ND	400	ug/kg	54
Benzo(ghi)perylene	ND	400	ug/kg	35
Benzo(k)fluoranthene	ND	400	ug/kg	51
Benzaldehyde	ND	400	ug/kg	82
1,1'-Biphenyl	ND	400	ug/kg	46
bis(2-Chloroethoxy)- methane	ND	400	ug/kg	45
bis(2-Chloroethyl)- ether	ND	400	ug/kg	45
bis(2-Ethylhexyl) phthalate	ND	400	ug/kg	39
4-Bromophenyl phenyl ether	ND	400	ug/kg	33
Butyl benzyl phthalate	ND	400	ug/kg	42
Caprolactam	ND	400	ug/kg	58
Carbazole	ND	400	ug/kg	35
4-Chloroaniline	ND	400	ug/kg	27
4-Chloro-3-methylphenol	ND	400	ug/kg	34
2-Choronaphthalene	ND	400	ug/kg	36
2-Chlorophenol	ND	400	ug/kg	69
4-Chlorophenyl phenyl ether	ND	400	ug/kg	28
Chrysene	ND	400	ug/kg	39
Dibenz(a,h)anthracene	ND	400	ug/kg	26
Dibenzofuran	ND	400	ug/kg	38
3,3'-Dichlorobenzidine	ND	1900	ug/kg	24
2,4-Dichlorophenol	ND	400	ug/kg	42

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP17-0304-01

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-004 Work Order #....: JWF9A1AN Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Diethyl phthalate	ND	400	ug/kg	37
2,4-Dimethylphenol	ND	400	ug/kg	35
Dimethyl phthalate	ND	400	ug/kg	32
Di-n-butyl phthalate	ND	400	ug/kg	36
4,6-Dinitro- 2-methylphenol	ND	1900	ug/kg	26
2,4-Dinitrophenol	ND	1900	ug/kg	600
2,4-Dinitrotoluene	ND	400	ug/kg	36
2,6-Dinitrotoluene	ND	400	ug/kg	30
Di-n-octyl phthalate	ND	400	ug/kg	35
Fluoranthene	ND	400	ug/kg	37
Fluorene	ND	400	ug/kg	37
Hexachlorobenzene	ND	400	ug/kg	35
Hexachlorobutadiene	ND	400	ug/kg	33
Hexachlorocyclopenta- diene	ND	1900	ug/kg	27
Hexachloroethane	ND	400	ug/kg	55
Indeno(1,2,3-cd)pyrene	ND	400	ug/kg	28
Isophorone	ND	400	ug/kg	52
2-Methylnaphthalene	ND	400	ug/kg	41
2-Methylphenol	ND	400	ug/kg	59
4-Methylphenol	ND	400	ug/kg	89
Naphthalene	ND	400	ug/kg	41
2-Nitroaniline	ND	1900	ug/kg	37
3-Nitroaniline	ND	1900	ug/kg	37
4-Nitroaniline	ND	1900	ug/kg	23
Nitrobenzene	ND	400	ug/kg	50
2-Nitrophenol	ND	400	ug/kg	54
4-Nitrophenol	ND	1900	ug/kg	28
N-Nitrosodi-n-propyl- amine	ND	400	ug/kg	40
N-Nitrosodiphenylamine	ND	400	ug/kg	45
2,2'-oxybis(1-Chloropropane)	ND	400	ug/kg	65
Pentachlorophenol	ND	1900	ug/kg	27
Phenanthrene	ND	400	ug/kg	38
Phenol	ND	400	ug/kg	44
Pyrene	50	400	ug/kg	43
2,4,5-Trichloro- phenol	ND	400	ug/kg	38
2,4,6-Trichloro- phenol	ND	400	ug/kg	28

(Continued on next page)

Tetra Tech NUS, Inc

Client Sample ID: 03TP17-0304-01

GC/MS Semivolatiles

Lot-Sample #....: C7E080110-004 Work Order #....: JWF9A1AN Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorobiphenyl	63	(45 - 105)
2-Fluorophenol	58	(35 - 105)
Phenol-d5	61	(40 - 100)
2,4,6-Tribromophenol	69	(35 - 125)
Nitrobenzene-d5	55	(35 - 100)
Terphenyl-d14	110	(30 - 125)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

Tetra Tech NUS, Inc

Client Sample ID: 03-DUP-02

GC Semivolatiles

Lot-Sample #....: C7E080110-005	Work Order #....: JWF9C1AP	Matrix.....: SOLID
Date Sampled....: 05/07/07	Date Received...: 05/08/07	MS Run #.....: 7128268
Prep Date.....: 05/08/07	Analysis Date...: 05/09/07	
Prep Batch #....: 7128422	Analysis Time...: 18:57	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol...: 20 mL
* Moisture.....: 14	Analyst ID.....: 402331	Instrument ID...: G/H
	Method.....: SW846 8081A	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.0	ug/kg	0.29
beta-BHC	ND	2.0	ug/kg	0.23
delta-BHC	ND	2.0	ug/kg	0.20
gamma-BHC (Lindane)	ND	2.0	ug/kg	0.27
Heptachlor	ND	2.0	ug/kg	0.25
Aldrin	0.69 J	2.0	ug/kg	0.21
Heptachlor epoxide	ND	2.0	ug/kg	0.19
Endosulfan I	ND	2.0	ug/kg	0.20
Dieldrin	5.6	2.0	ug/kg	0.14
4,4'-DDE	ND	2.0	ug/kg	0.12
Endrin	ND	2.0	ug/kg	0.15
Endrin ketone	ND	2.0	ug/kg	0.22
Endrin aldehyde	ND	2.0	ug/kg	0.24
Endosulfan II	ND	2.0	ug/kg	0.45
4,4'-DDD	ND	2.0	ug/kg	0.17
Endosulfan sulfate	ND	2.0	ug/kg	0.31
4,4'-DDT	ND	2.0	ug/kg	0.26
Methoxychlor	ND	3.8	ug/kg	0.80
alpha-Chlordane	ND	2.0	ug/kg	0.12
gamma-Chlordane	ND	2.0	ug/kg	0.20
Toxaphene	ND	78	ug/kg	13
<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
		(70 - 125)		
Tetrachloro-m-xylene	97	(55 - 130)		
Decachlorobiphenyl	100			

NOTE (S):

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

Tetra Tech NUS, Inc

Client Sample ID: 03TP15-0405-01

GC Semivolatiles

Lot-Sample #....: C7E080110-002 Work Order #....: JWF861AE Matrix.....: SOLID
 Date Sampled....: 05/07/07 Date Received...: 05/08/07 MS Run #.....: 7128268
 Prep Date.....: 05/08/07 Analysis Date...: 05/09/07
 Prep Batch #....: 7128422 Analysis Time...: 17:31
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol...: 20 mL
 % Moisture.....: 18 Analyst ID.....: 402331 Instrument ID...: G/H
 Method.....: SW846 8081A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.1	ug/kg	0.31
beta-BHC	ND	2.1	ug/kg	0.24
delta-BHC	ND	2.1	ug/kg	0.21
gamma-BHC (Lindane)	ND	2.1	ug/kg	0.28
Heptachlor	ND	2.1	ug/kg	0.26
Aldrin	ND	2.1	ug/kg	0.22
Heptachlor epoxide	ND	2.1	ug/kg	0.20
Endosulfan I	1.1 J, PG	2.1	ug/kg	0.21
Dieldrin	0.28 J	2.1	ug/kg	0.15
4,4'-DDE	ND	2.1	ug/kg	0.12
Endrin	ND	2.1	ug/kg	0.16
Endrin ketone	ND	2.1	ug/kg	0.24
Endrin aldehyde	ND	2.1	ug/kg	0.26
Endosulfan II	0.70 J	2.1	ug/kg	0.47
4,4'-DDD	ND	2.1	ug/kg	0.18
Endosulfan sulfate	ND	2.1	ug/kg	0.33
4,4'-DDT	ND	2.1	ug/kg	0.28
Methoxychlor	ND	4.0	ug/kg	0.84
alpha-Chlordane	ND	2.1	ug/kg	0.13
gamma-Chlordane	ND	2.1	ug/kg	0.21
Toxaphene	ND	82	ug/kg	14
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
		<u>RECOVERY</u>	<u>LIMITS</u>	
Tetrachloro-m-xylene	96	(70 - 125)		
Decachlorobiphenyl	98	(55 - 130)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

Tetra Tech NUS, Inc

Client Sample ID: 03TP16-0102-01

GC Semivolatiles

Lot-Sample #....:	C7E080110-003	Work Order #....:	JWP891AP	Matrix.....:	SOLID
Date Sampled....:	05/07/07	Date Received...:	05/08/07	MS Run #.....:	7128268
Prep Date.....:	05/08/07	Analysis Date...:	05/09/07		
Prep Batch #....:	7128422	Analysis Time...:	18:22		
Dilution Factor:	1	Initial Wgt/Vol:	15 g	Final Wgt/Vol..:	20 mL
% Moisture.....:	15	Analyst ID.....:	402331	Instrument ID..:	G/H
		Method.....:	SW846 8081A		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.0	ug/kg	0.30
beta-BHC	ND	2.0	ug/kg	0.23
delta-BHC	ND	2.0	ug/kg	0.21
gamma-BHC (Lindane)	ND	2.0	ug/kg	0.27
Heptachlor	ND	2.0	ug/kg	0.25
Aldrin	0.27 J, PG	2.0	ug/kg	0.21
Heptachlor epoxide	ND	2.0	ug/kg	0.20
Endosulfan I	ND	2.0	ug/kg	0.20
Dieldrin	25	2.0	ug/kg	0.15
4, 4'-DDE	ND	2.0	ug/kg	0.12
Endrin	ND	2.0	ug/kg	0.16
Endrin ketone	ND	2.0	ug/kg	0.23
Endrin aldehyde	ND	2.0	ug/kg	0.25
Endosulfan II	0.49 J, PG	2.0	ug/kg	0.45
4, 4'-DDD	ND	2.0	ug/kg	0.17
Endosulfan sulfate	ND	2.0	ug/kg	0.32
4, 4'-DDT	ND	2.0	ug/kg	0.27
Methoxychlor	ND	3.9	ug/kg	0.81
alpha-Chlordane	ND	2.0	ug/kg	0.12
gamma-Chlordane	ND	2.0	ug/kg	0.20
Toxaphene	ND	79	ug/kg	14
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
		<u>RECOVERY</u>	<u>LIMITS</u>	
Tetrachloro-m-xylene	95	(70 - 125)		
Decachlorobiphenyl	99	(55 - 130)		

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated: The analyte was positively identified; the quantitation is estimated.

PG The percent difference between the original and confirmation analyses is greater than 40%.

Tetra Tech NUS, Inc

Client Sample ID: 03TP17-0304-01

GC Semivolatiles

Lot-Sample #....: C7E080110-004 Work Order #....: JWF9A1AP Matrix.....: SOLID
 Date Sampled....: 05/07/07 Date Received...: 05/08/07 MS Run #.....: 7128268
 Prep Date.....: 05/08/07 Analysis Date...: 05/09/07
 Prep Batch #....: 7128422 Analysis Time...: 18:40
 Dilution Factor: 1 Initial Wgt/Vol: 15 g Final Wgt/Vol..: 20 mL
 * Moisture.....: 17 Analyst ID.....: 402331 Instrument ID..: G/H
 Method.....: SW846 8081A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
alpha-BHC	ND	2.0	ug/kg	0.31
beta-BHC	ND	2.0	ug/kg	0.24
delta-BHC	ND	2.0	ug/kg	0.21
gamma-BHC (Lindane)	ND	2.0	ug/kg	0.28
Heptachlor	ND	2.0	ug/kg	0.26
Aldrin	ND	2.0	ug/kg	0.21
Heptachlor epoxide	ND	2.0	ug/kg	0.20
Endosulfan I	ND	2.0	ug/kg	0.21
Dieldrin	4.0	2.0	ug/kg	0.15
4,4'-DDE	ND	2.0	ug/kg	0.12
Endrin	ND	2.0	ug/kg	0.16
Endrin ketone	ND	2.0	ug/kg	0.23
Endrin aldehyde	ND	2.0	ug/kg	0.25
Endosulfan II	ND	2.0	ug/kg	0.46
4,4'-DDD	ND	2.0	ug/kg	0.18
Endosulfan sulfate	ND	2.0	ug/kg	0.33
4,4'-DDT	ND	2.0	ug/kg	0.27
Methoxychlor	ND	4.0	ug/kg	0.83
alpha-Chlordane	ND	2.0	ug/kg	0.13
gamma-Chlordane	ND	2.0	ug/kg	0.21
Toxaphene	ND	81	ug/kg	14
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
		<u>RECOVERY</u>	<u>LIMITS</u>	
Tetrachloro-m-xylene	96	(70 - 125)		
Decachlorobiphenyl	100	(55 - 130)		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03-DUP-02

GC Semivolatiles

Lot-Sample #....: C7E080110-005	Work Order #....: JWF9C1AQ	Matrix.....: SOLID
Date Sampled....: 05/07/07	Date Received...: 05/08/07	MS Run #.....: 7128271
Prep Date.....: 05/08/07	Analysis Date...: 05/10/07	
Prep Batch #....: 7128427	Analysis Time...: 00:07	
Dilution Factor: 1	Initial Wgt/Vol: 15. g	Final Wgt/Vol..: 20 mL
% Moisture.....: 14	Analyst ID.....: 402360	Instrument ID..: S/T
	Method.....: SW846 8082	

<u>PARAMETER</u>	<u>REPORTING</u>		
	<u>RESULT</u>	<u>LIMIT</u>	<u>UNITS</u>
Aroclor 1262	ND	19	ug/kg
Aroclor 1268	ND	19	ug/kg
Aroclor 1016	ND	19	ug/kg
Aroclor 1221	ND	19	ug/kg
Aroclor 1232	ND	19	ug/kg
Aroclor 1242	ND	19	ug/kg
Aroclor 1248	ND	19	ug/kg
Aroclor 1254	ND	19	ug/kg
Aroclor 1260	ND	19	ug/kg
<u>SURROGATE</u>		<u>RECOVERY</u>	
Tetrachloro-m-xylene	100	<u>LIMITS</u>	
Decachlorobiphenyl	88	(40 - 140)	
		(60 - 125)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP15-0405-01

GC Semivolatiles

Lot-Sample #....: C7E080110-002	Work Order #....: JWF861AF	Matrix.....: SOLID
Date Sampled....: 05/07/07	Date Received...: 05/08/07	MS Run #.....: 7128271
Prep Date.....: 05/08/07	Analysis Date...: 05/09/07	
Prep Batch #....: 7128427	Analysis Time...: 22:11	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol...: 20 mL
* Moisture.....: 18	Analyst ID.....: 402360	Instrument ID...: S/T
	Method.....: SW846 8082	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Aroclor 1262	ND	20	ug/kg	4.4
Aroclor 1268	ND	20	ug/kg	2.6
Aroclor 1016	ND	20	ug/kg	3.0
Aroclor 1221	ND	20	ug/kg	3.9
Aroclor 1232	ND	20	ug/kg	3.5
Aroclor 1242	ND	20	ug/kg	3.3
Aroclor 1248	ND	20	ug/kg	1.9
Aroclor 1254	ND	20	ug/kg	2.9
Aroclor 1260	ND	20	ug/kg	2.9

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
Tetrachloro-m-xylene	99	(40 - 140)	
Decachlorobiphenyl	84	(60 - 125)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP16-0102-01

GC Semivolatiles

Lot-Sample #....: C7E080110-003	Work Order #....: JWF891AQ	Matrix.....: SOLID
Date Sampled....: 05/07/07	Date Received...: 05/08/07	MS Run #.....: 7128271
Prep Date.....: 05/08/07	Analysis Date...: 05/09/07	
Prep Batch #....: 7128427	Analysis Time...: 23:21	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol...: 20 mL
% Moisture.....: 15	Analyst ID.....: 402360	Instrument ID...: S/T
	Method.....: SW846 8082	

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Aroclor 1262	ND	20	ug/kg	4.3
Aroclor 1268	ND	20	ug/kg	2.5
Aroclor 1016	ND	20	ug/kg	2.9
Aroclor 1221	ND	20	ug/kg	3.7
Aroclor 1232	ND	20	ug/kg	3.4
Aroclor 1242	ND	20	ug/kg	3.2
Aroclor 1248	ND	20	ug/kg	1.9
Aroclor 1254	ND	20	ug/kg	2.8
Aroclor 1260	ND	20	ug/kg	2.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS	
		(40 - 140)	(60 - 125)
Tetrachloro-m-xylene	96		
Decachlorobiphenyl	83		

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

Tetra Tech NUS, Inc

Client Sample ID: 03TP17-0304-01

GC Semivolatiles

Lot-Sample #....: C7E080110-004	Work Order #....: JWF9A1AQ	Matrix.....: SOLID
Date Sampled...: 05/07/07	Date Received..: 05/08/07	MS Run #.....: 7128271
Prep Date.....: 05/08/07	Analysis Date..: 05/09/07	
Prep Batch #....: 7128427	Analysis Time...: 23:44	
Dilution Factor: 1	Initial Wgt/Vol: 15 g	Final Wgt/Vol...: 20 mL
* Moisture.....: 17	Analyst ID.....: 402360	Instrument ID...: S/T
	Method.....: SW846 8082	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1262	ND	20	ug/kg	4.4
Aroclor 1268	ND	20	ug/kg	2.6
Aroclor 1016	ND	20	ug/kg	3.0
Aroclor 1221	ND	20	ug/kg	3.8
Aroclor 1232	ND	20	ug/kg	3.4
Aroclor 1242	ND	20	ug/kg	3.3
Aroclor 1248	ND	20	ug/kg	1.9
Aroclor 1254	ND	20	ug/kg	2.9
Aroclor 1260	ND	20	ug/kg	2.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(40 - 140)
Decachlorobiphenyl	86	(60 - 125)

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

APPENDIX C

Support Documentation

**CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003**

STL Lot #: C7E080110

Sample Receiving:

STL Pittsburgh received samples on March 8, 2007. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

GC/MS Volatiles:

All non-CCC compounds, associated with ICAL 4050507S, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: 1,2-Dibromo-3-chloropropane, Bromoform, Chloroethane and Methylene chloride. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

All non-CCC compounds, associated with ICAL 7051507H, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: Bromomethane and Chloroethane. The following compound used a quadratic curve and the correlation coefficient was >0.995: Acetone.

The following compounds had the %D > 25% in the calibration verification standard CC405011; but were within the expected performance range for these compounds: Chloroethane -33.0% and Trichlorofluoromethane -26.8%.

The method blanks for batches 7130081 and 7131197 had methylene chloride detected below the reporting limit but above the MDL. The result was flagged with a "J" qualifier. Any sample associated with this blank that had methylene chloride detected had the result flagged with a "B" qualifier.

**CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003**

STL Lot #: C7E080110

GC/MS Semivolatiles:

All non-CCC compounds, associated with ICAL 051407APPIX722, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: Benzaldehyde, 2,4-Dinitrophenol, Pentachlorophenol, 3,3'-Dichlorobenzidine, Benzo(b)fluoranthene and Dibenz(a,h)anthracene.

The following compound associated with ICAL 051407APPIX722 had %RSD >30% but are within expected ranges: Atrazine.

All non-CCC compounds, associated with ICAL 0522078270722, that have >15% RSD were evaluated to see if a better curve could be drawn. All compounds <30% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A quadratic curve will be used for a compound where it is determined to be the "best-fit" evaluation. It was determined that an average response factor curve was the "best fit" for the following compounds: 4-Methylphenol, 4-Chloroaniline, 1,1'-Biphenyl, 2,3,4,6-Tetrachlorophenol, Fluorene, 4-Chlorophenyl-phenylether, 4,6-Dinitro-2-methylphenol, Atrazine, Pentachlorophenol, 3,3'-Dichlorobenzidine, Benzo(b)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene and 2,4,6-Tribromophenol.

The following compound associated with ICAL 0522078270722 had %RSD >30% but are within expected ranges: Benzaldehyde and 2,4-Dinitrophenol.

The following compound had the %D > 25% in the calibration verification standard F05280C1722; but was within expected performance range for this compound: Caprolactam 28.0%.

The MS/MSD had several recoveries and RPD's outside of criteria. Acceptable LCS data demonstrates that the analytical system was operating in control; this condition is most likely due to a matrix effect.

Pesticides:

All compounds <20% RSD will use an average response factor curve if no visible improvement is accomplished using a curve. A curve will be used for a compound where it is determined to be the "best-fit" evaluation.

**CASE NARRATIVE
TETRATECH NUS, INC.
WILLOW GROVE
CT0 003**

STL Lot #: C7E080110

PCBs:

There were no problems associated with the analysis.

Metals:

The serial dilution percent difference was outside control limits for nickel and zinc.

The method blank had analytes detected at concentrations between the MDL and the reporting limit. The results were flagged with a "B" qualifier. Any sample associated with a method blank that had the same analyte detected had the result flagged with a "J" qualifier.

For the matrix spike and matrix spike duplicate, aluminum, iron and manganese recoveries were not calculated due to the concentration of analyte in the sample being >4 times the concentration of spike added.

The matrix spike and matrix spike duplicate were below control limits for antimony. The RPD was outside control limits.

The matrix spike duplicate was above control limits for copper.

General Chemistry:

There were no problems associated with the analysis.

**Chain of
Custody Record**

STL-4124 (0601)

**STL****Severn Trent Laboratories, Inc.**

Client <u>Futura Technical Services</u> Address <u>600 Clark Avenue Suite 3</u> City <u>King of Prussia</u> State <u>PA</u> Zip Code <u>19406</u>			Project Manager <u>Russ Turner</u> Telephone Number (Area Code)/Fax Number <u>610 491 9688 610 491 9645</u>			Date <u>5/7/07</u>	Chain of Custody Number <u>311308</u>			
			Site Contact <u>Chuck Meyer</u>	Lab Contact <u>Veronica Berret</u>	Lab Number			Page <u>1</u> of <u>1</u>		
Project Name and Location (State) <u>NASIRI WILLIAMS GROUP PA</u> Contract/Purchase Order/Quote No. <u>8545 6865 8644</u>						Analysis (Attach list if more space is needed)			Special Instructions/ Conditions of Receipt	
Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives			20	
			AP	Aqueous	GAS	SO ₂	H ₂ S	SO ₃		HCl
TB-050707	5/7/07	0730	X				X			2
03TP15-0405-01	5/7/07	0950		X	X					3 1 1
03TP16-0102-01	5/7/07	1250		X	X					3 1 1
03TP17-0304-01	5/7/07	1510		X	X					3 1 1
03-04P-02	5/7/07	1650		X	X					3 1 1
Possible Hazard Identification			Sample Disposal						(A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Turn Around Time Required										
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other _____										
OC Requirements (Specify)										
1. Relinquished By <u>Chuck Meyer</u>			Date <u>5/7/07</u>	Time <u>1830</u>	1. Received By <u>JL Park</u>			Date <u>05-08-07</u>	Time <u>0935</u>	
2. Relinquished By			Date	Time	2. Received By			Date	Time	
3. Relinquished By			Date	Time	3. Received By			Date	Time	
Comments										

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: C7E080110
 MB Lot-Sample #: C7E100000-081

Analysis Date...: 05/10/07
 Dilution Factor: 1

Work Order #....: JWMA41AA
 Prep Date.....: 05/10/07
 Prep Batch #: 7130081
 Initial Wgt/Vol: 5 g
 Analyst ID.....: 010099

Matrix.....: SOLID

Analysis Time..: 06:14
 Final Wgt/Vol.: 5 mL
 Instrument ID..: HP4

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	METHOD
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorodibromomethane	ND	5.0	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
o-Xyl n	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	10	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propan	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-M thyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B

(Continued on next page)

1.6 J

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: C7E080110
 NB Lot-Sample #: C7E110000-197

Analysis Date...: 05/11/07
 Dilution Factor: 1

Work Order #....: JWQX21AA

Matrix.....: SOLID

Prep Date.....: 05/11/07
 Prep Batch #: 7131197
 Initial Wgt/Vol: 5 g
 Analyst ID.....: 034635

Analysis Time..: 05:34
 Final Wgt/Vol.: 5 mL
 Instrument ID.: HP4

PARAMETER	REPORTING			
	RESULT	LIMIT	UNITS	METHOD
1,2,3-Trichlorobenzene	ND	5.0	ug/kg	SW846 8260B
o-Xylene	ND	5.0	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	10	ug/kg	SW846 8260B
Bromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chlorodibromomethane	ND	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	5.0	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Cyclohexane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	5.0	ug/kg	SW846 8260B
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260B
Methyl acetate	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	1.6 J	5.0	ug/kg	SW846 8260B
Methylcyclohexane	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/kg	SW846 8260B

(Continued on next page)

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP15-0405-01

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL Case No.:

SAS No.: 40325 SDG No.: C7E080110

Lab Sample ID: JWF861AE

Date(s) Analyzed: 05/09/07 05/09/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Endosulfan I	1	6.50	6.49	6.55	0.9030	
	2	6.48	6.43	6.53	1.312	45.3
Dieldrin	1	6.88	6.85	6.91	0.2339	
	2	6.82	6.78	6.88	0.1852	26.3
Endosulfan II	1	7.53	7.50	7.56	0.5736	
	2	7.63	7.60	7.70	0.4126	39.0
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____
	1	_____	_____	_____	_____	_____
	2	_____	_____	_____	_____	_____

page 1 of 1

FORM X PEST-1

OLM03.0

10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

EPA SAMPLE NO.

03TP16-0102-01

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.:

SAS No.: 40325

SDG No.: C7E080110

Lab Sample ID: JWF891AP

Date(s) Analyzed: 05/09/07 05/09/07

Instrument ID (1): GC4

Instrument ID (2): GC4

GC Column(1): MR-1

ID: 0.53 (mm)

GC Column(2): MR-2

ID: 0.53 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
gamma-BHC (Lindane) <i>2/14 5-10-07</i>	1	4.66	4.65	4.71	0.1072	
	2	4.76	4.68	4.78	0.2123	98.0
Aldrin	1	5.15	5.14	5.20	0.7033	
	2	5.49	5.44	5.54	0.2301	205.6
Dieldrin	1	6.88	6.85	6.91	21.22	
	2	6.83	6.78	6.88	20.91	1.5
Endosulfan II	1	7.52	7.50	7.56	0.6942	
	2	7.63	7.60	7.70	0.4184	65.9
	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	
	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	
	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	
	1	_____	_____	_____	_____	
	2	_____	_____	_____	_____	

page 1 of 1

FORM X PEST-1

OLM03.0

EVALUATION OF ORGANIC DUPLICATE ANALYSIS PRECISION

NOTES

1 - When both results are > or = 5xCRQL/MDL, the acceptance limit is the relative percent difference must be < or = 30% for aqueous and air samples and must be < 50% for solid samples.

2 - When at least one of the results is $< 5x$ CRQL/MDL, the acceptance limit is the difference between the results must be $<$ or $=$ CRQL/MDL for aqueous and air samples and $<$ or $= 2 \times$ CRQL/MDL for solid samples.

Q - The qualifier is entered to indicate if the analyte was not detected or qualitatively questionable in the sample.

U - The qualifier is entered to indicate if the analyte was not detected or qualitatively questionable.

NC - The RPD was not calculated because one of the results was not detected; the acceptance limit used is the difference between the results must be $< \text{or} = 2\text{CBOL}/\text{MDL}$ for aqueous and air samples and $< \text{or} = 2\sqrt{\text{CBOL}}/\text{MDL}$ for solid samples.

must be < or = CRQL/MDL for aqueous and air samples

B - The result should be considered non-detected or qualitatively questionable due to blank contamination.

B - The result should be considered acceptable.

COMENTOS

COMMENTS

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp4.i Injection Date: 10-MAY-2007 05:10
 Lab File ID: CC40510.D Init. Cal. Date(s): 22-MAR-2007 05-MAY-2007
 Analysis Type: SOIL Init. Cal. Times: 18:10 06:23
 Lab Sample ID: VSTD50 Quant Type: ISTD
 Method: \\qpitpa02\d\chem\hp4.i\4051007d.b\8260bsoil.m

COMPOUND	RRP	RF50	MIN	MAX
		RRP	%D	%D
53 Bromodichloromethane	0.30313	0.28503 0.010	-6.0 25.0	
57 cis-1,3-Dichloropropene	0.38751	0.36636 0.010	-5.5 25.0	
58 4-Methyl-2-Pentanone	1.09966	1.25672 0.010	14.3 50.0	
60 Toluene	5.61198	5.81210 0.010	3.6 20.0	
61 trans-1,3-Dichloropropene	1.38688	1.46298 0.010	5.5 25.0	
63 1,3-Dichloropropane	1.41040	1.50024 0.010	6.4 25.0	
64 1,1,2-Trichloroethane	0.76079	0.81695 0.010	7.4 25.0	
65 Tetrachloroethene	0.96249	1.01046 0.010	5.0 25.0	
66 2-Hexanone	0.94901	1.20983 0.010	27.5 50.0	
67 Dibromochloromethane	0.78001	0.81471 0.010	4.4 25.0	
68 1,2-Dibromoethane	0.74801	0.79150 0.010	5.8 25.0	
70 Chlorobenzene	3.18524	3.34195 0.300	4.9 25.0	
71 1,1,1,2-Tetrachloroethane	0.93977	1.00472 0.010	6.9 25.0	
72 Ethylbenzene	1.89382	1.99000 0.010	5.1 20.0	
73 m + p-Xylene	2.29584	2.44954 0.010	6.7 25.0	
74 Xylene-o	2.15943	2.30335 0.010	6.7 25.0	
M 75 Xylenes (total)	2.25037	2.40081 0.010	6.7 25.0	
76 Styrene	3.54795	3.79363 0.010	6.9 25.0	
77 Bromoform	0.37923	0.39190 0.100	3.3 25.0	
78 Isopropylbenzene	5.95698	6.34134 0.010	6.5 25.0	
83 1,1,2,2-Tetrachloroethane	0.57010	0.66096 0.300	15.9 25.0	
91 1,3-Dichlorobenzene	1.60913	1.81193 0.010	12.6 25.0	
93 1,4-Dichlorobenzene	1.63625	1.83610 0.010	12.2 25.0	
95 1,2-Dichlorobenzene	1.42330	1.61928 0.010	13.8 25.0	
96 1,2-Dibromo-3-chloropropane	0.09006	0.10237 0.010	13.7 50.0	
97 1,2,4-Trichlorobenzene	0.95320	1.08250 0.010	13.6 25.0	
100 1,2,3-Trichlorobenzene	0.80280	0.89493 0.010	11.5 25.0	

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: hp4.i Injection Date: 11-MAY-2007 04:55
 Lab File ID: CC40511.D Init. Cal. Date(s): 22-MAR-2007 05-MAY-2007
 Analysis Type: SOIL Init. Cal. Times: 18:10 06:23
 Lab Sample ID: vstd50 Quant Type: ISTD
 Method: \\qpitpa02\d\chem\hp4.i\4051107d.b\\$260bsoil.m

COMPOUND	RRF	RF50	MIN	MAX
		RRF	tD	tD
\$ 39 Dibromofluoromethane	0.22684	0.21529 0.010	-5.1 50.0	
\$ 43 1,2-Dichloroethane-d4	0.28471	0.26248 0.010	-7.8 50.0	
\$ 59 Toluene-d8	4.40755	4.62683 0.010	5.0 50.0	
\$ 80 Bromofluorobenzene	1.63249	1.66722 0.010	2.1 50.0	
1 Dichlorodifluoromethane	0.32011	0.35108 0.010	9.7 50.0	
2 Chloromethane	0.48976	0.45710 0.100	-6.7 25.0	
3 Vinyl Chloride	0.40416	0.39540 0.010	-2.2 20.0	
4 Bromomethane	0.08465	0.08197 0.010	3.2 30.0	
5 Chloroethane	0.13767	0.09219 0.010	-33.0 50.0	
6 Trichlorofluoromethane	0.31832	0.23391 0.010	-26.5 50.0	
12 1,1-Dichloroethene	0.25486	0.24234 0.010	-4.9 20.0	
156 1,1,2-Trichlorotrifluoroeth	0.25472	0.24135 0.010	-5.2 25.0	
13 Acetone	250	211 0.010	15.5 50.0	
155 Methyl acetate	0.19455	0.17392 0.010	-10.6 50.0	
15 Carbon Disulfide	0.09762	0.06716 0.010	-3.4 25.0	
18 Methylene Chloride	0.29069	0.26942 0.010	-7.3 50.0	
19 trans-1,2-Dichloroethene	0.29498	0.28537 0.010	-3.3 25.0	
20 Methyl tert-butyl ether	0.62804	0.56845 0.010	-9.5 25.0	
24 1,1-Dichloroethane	0.61230	0.57780 0.100	-5.6 25.0	
27 2,2-Dichloropropane	0.36172	0.34270 0.010	-5.3 25.0	
28 cis-1,2-dichloroethene	0.29633	0.28440 0.010	-4.0 25.0	
M 29 1,2-Dichloroethene (total)	0.29565	0.28488 0.010	-3.6 25.0	
30 Bromochloromethane	0.11688	0.10743 0.010	-8.1 25.0	
31 2-Butanone	0.14622	0.13606 0.010	-6.9 50.0	
37 Chloroform	0.45913	0.43143 0.010	-6.0 20.0	
157 Cyclohexane	0.82434	0.77299 0.010	-6.2 25.0	
38 1,1,1-Trichloroethane	0.41676	0.39283 0.010	-5.7 25.0	
40 1,1-Dichloropropene	0.40253	0.38692 0.010	-3.9 25.0	
41 Carbon Tetrachloride	0.32365	0.31516 0.010	-2.6 25.0	
42 Benzene	1.16956	1.11133 0.010	-5.0 25.0	
45 1,2-Dichloroethane	0.38382	0.35279 0.010	-8.1 25.0	
47 Trichloroethene	0.28723	0.27104 0.010	-5.6 25.0	
158 methyl cyclohexane	0.57614	0.54243 0.010	-5.8 25.0	
49 1,2-Dichloropropane	0.33072	0.30461 0.010	-7.9 20.0	
50 Dibromomethane	0.11616	0.10553 0.010	-9.1 25.0	

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1CX

BATCH: 7131197

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
trans-1,3-Dichloropropene	53.4	ND	44.3	83	65 - 125	
Ethylbenzene	53.4	ND	53.5	100	75 - 125	
2-Hexanone	53.4	ND	38.1	71	45 - 145	
Methylene chloride	53.4	3.5	41.7	72	55 - 140	
4-Methyl-2-pentanone	53.4	ND	35.3	66	45 - 145	
Naphthalene	53.4	ND	37.4	70	40 - 125	
Styrene	53.4	ND	49.9	93	75 - 125	
1,1,1,2-Tetrachloroethane	53.4	ND	50.3	94	75 - 125	
1,1,2,2-Tetrachloroethane	53.4	ND	46.4	87	55 - 130	
Tetrachloroethene	53.4	ND	53.5	100	65 - 140	
1,1,2-Trichloroethane	53.4	ND	42.2	79	60 - 125	
1,1,1-Trichloroethane	53.4	ND	47.4	89	70 - 135	
Trichlorofluoromethane	53.4	ND	51.3	96	25 - 185	
Xylenes (t tol)	160	ND	158	99	37 - 162	
o-Xylene	53.4	ND	52.6	98	75 - 125	
m-Xylene & p-Xylene	107	ND	106	99	80 - 125	
Vinyl chloride	53.4	ND	52.2	98	60 - 125	
Methyl tert-butyl ether	53.4	ND	34.8	65	40 - 140	
Isopropylbenzene	53.4	ND	51.5	96	75 - 130	
1,1-Dichloropropene	53.4	ND	47.2	88	70 - 135	
1,2,3-Trichlorobenzene	53.4	ND	36.9	69	60 - 135	
1,2,3-Trichloropropane	53.4	ND	44.8	84	65 - 130	
1,2,4-Trichlorobenzene	53.4	ND	40.3	75	65 - 130	
2,2-Dichloropropane	53.4	ND	48.4	91	65 - 135	
2-Chlorotoluene	53.4	ND	60.8	114	70 - 130	
4-Chlorotoluene	53.4	ND	59.7	112	75 - 125	
Bromobenzene	53.4	ND	56.8	106	65 - 120	
Dibromomethane	53.4	ND	35.6	67*	75 - 130	a

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Seven Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1C0

BATCH: 7131197

COMPOUND	SPIKE	MSD	MSD	QC LIMITS			QUAL
	ADDED (ug/kg)	CONCENT. (ug/kg)	% REC	% RPD	RPD	REC	
1,1-Dichloroethene	50.4	45.3	90	2.6	35	65 - 135	
Trichloroethene	50.4	45.0	89	3.5	30	75 - 125	
Benzene	50.4	45.5	90	1.8	30	75 - 125	
Toluene	50.4	50.5	100	2.4	30	70 - 125	
Chlorobenzene	50.4	49.6	98	2.0	30	75 - 125	
Acetone	50.4	28.3	56	2.9	37	20 - 160	
Bromodichloromethane	50.4	41.4	82	0.35	30	70 - 130	
Bromoform	50.4	38.2	76	0.90	30	55 - 135	
Bromomethane	50.4	48.4	96	2.0	30	30 - 160	
2-Butanone	50.4	31.7	63	2.4	33	30 - 160	
Bromochloromethane	50.4	39.1	78	2.4	30	70 - 125	
Carbon disulfide	50.4	45.8	91	2.8	36	45 - 160	
Carbon tetrachloride	50.4	46.4	92	3.7	30	65 - 135	
Chloroethane	50.4	35.2	70	4.6	*	30	40 - 155 p
Chloroform	50.4	44.7	89	1.9	30	70 - 125	
Chloromethane	50.4	50.9	101	4.4	30	50 - 130	
1,2-Dibromo-3-chloropropane	50.4	41.2	82	5.5	30	40 - 135	
1,2-Dibromoethane	50.4	39.7	79	2.4	30	70 - 125	
1,3-Dichlorobenzene	50.4	54.0	107	2.4	30	70 - 125	
1,4-Dichlorobenzene	50.4	52.2	104	3.2	30	70 - 125	
1,2-Dichlorobenzene	50.4	50.2	100	4.2	30	75 - 120	
Dichlorodifluoromethane	50.4	55.9	111	0.59	30	35 - 135	
1,1-Dichloroethane	50.4	45.7	91	1.5	47	75 - 125	
1,2-Dichloroethane	50.4	39.4	76	0.41	43	70 - 135	
trans-1,2-Dichloroethene	50.4	46.0	91	2.9	30	65 - 135	
cis-1,2-Dichloroethene	50.4	45.0	89	1.8	30	65 - 125	
1,2-Dichloropropane	50.4	42.5	84	0.89	30	70 - 120	
cis-1,3-Dichloropropene	50.4	40.4	80	1.0	40	70 - 125	

(Continued on next page)

SW846 8260B MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: T tra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: LAB MS/MSD

Level: (low/med) LOW

Lot #: C7E020142

WO #: JV37P1C0

BATCH: 7131197

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD %	QC LIMITS	QUAL
	REC	RPD	RPD REC		
trans-1,3-Dichloropropene	50.4	44.4	88	0.020	31 65- 125
Ethylbenzene	50.4	51.5	102	3.8	30 75- 125
2-Hexanone	50.4	38.8	77	1.8	31 45- 145
Methylene chloride	50.4	41.7	76	0.11	30 55- 140
4-Methyl-2-pentanone	50.4	35.4	70	0.41	39 45- 145
Naphthalene	50.4	36.8	73	1.4	30 40- 125
Styrene	50.4	48.7	97	2.4	30 75- 125
1,1,1,2-Tetrachloroethane	50.4	50.3	100	0.14	30 75- 125
1,1,2,2-Tetrachloroethane	50.4	46.8	93	0.73	30 55- 130
Tetrachloroethene	50.4	51.0	101	4.9	30 65- 140
1,1,2-Trichloroethane	50.4	42.6	85	1.1	30 60- 125
1,1,1-Trichloroethane	50.4	45.8	91	3.3	30 70- 135
Trichlorofluoromethane	50.4	48.6	97	5.4	30 25- 185
Xylenes (total)	151	154	102	2.8	30 37- 162
o-Xylene	50.4	50.8	101	3.6	30 75- 125
m-Xylene & p-Xylene	101	103	102	2.4	30 80- 125
Vinyl chloride	50.4	51.8	103	0.87	30 60- 125
Methyl tert-butyl ether	50.4	35.9	71	3.0	50 40- 140
Isopropylbenzene	50.4	49.2	98	4.6	30 75- 130
1,1-Dichloropropene	50.4	45.6	91	3.5	30 70- 135
1,2,3-Trichlorobenzene	50.4	35.2	70	4.5	30 60- 135
1,2,3-Trichloropropane	50.4	45.8	91	2.3	30 65- 130
1,2,4-Trichlorobenzene	50.4	39.2	78	2.9	30 65- 130
2,2-Dichloropropane	50.4	47.2	94	2.5	30 65- 135
2-Chlorotoluene	50.4	58.5	116	4.0	30 70- 130
4-Chlorotoluene	50.4	56.4	112	5.7	30 75- 125
Bromob nz ne	50.4	55.3	110	2.6	30 65- 120
Dibromomethane	50.4	36.2	72*	1.7	30 75- 130 a

(Continued on next page)

STL Pittsburgh

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAY-2007 05:53
 End Cal Date : 22-MAY-2007 08:18
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\qpitpa02\\d\\chem\\722.i\\5pt.b\\8270b.m
 Last Edit : 23-May-2007 11:12 bungardf
 Curve Type : Average

Calibration File Names:

Level 1: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C2.D
 Level 2: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C3.D
 Level 3: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C1.D
 Level 4: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C4.D
 Level 5: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C5.D
 Level 6: \\qpitpa02\\d\\chem\\722.i\\5pt.b\\F05220C6.D

Compound	20.000	40.000	50.000	80.000	120.000	160.000	RRF	% RSD
225 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
226 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
224 Pentachloroanisole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
203 3&4 Methylphenol total	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
198 1,4-Dioxane	0.80783	0.85090	0.78322	0.79489	0.77457	0.74499	0.79273	4.483
7 N-Nitrosomorpholine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
8 Ethyl methanesulfonate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
9 Pyridine	2.09834	2.06140	2.00258	1.95954	1.90499	1.84664	1.97892	4.792
199 Thionazin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
200 sulfonepp	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
10 N-Nitrosodimethylamine	1.07611	1.09582	1.02781	1.04709	1.02654	0.98797	1.04356	3.694
11 Ethyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
12 3-Chloropropionitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
13 Malononitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 2-Picoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
15 N-Nitrosomethylmethyamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
16 Methyl methanesulfonate	1.12369	1.14981	1.07439	1.09961	1.03304	1.00899	1.08159	4.967
18 1,3-Dichloro-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
19 N-Nitrosodiethylamine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
220 Benzaldehyde	1.07180	0.91144	0.65148	0.67251	0.47508	0.38609	0.69473	37.259 <-
21 Aniline	1.60986	1.55481	1.47089	1.48016	1.45115	1.43072	1.49960	4.572
22 Phenol	1.41866	1.44790	1.46942	1.45389	1.50968	1.58503	1.48076	3.995
23 bis(2-Chloroethyl)ether	1.06035	1.03536	1.04891	1.03121	1.07674	1.12280	1.06256	3.190
24 2-Chlorophenol	1.29291	1.31277	1.31634	1.29511	1.37421	1.42938	1.33679	4.046
25 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
26 1,3-Dichlorobenzene	1.61658	1.61194	1.60833	1.63125	1.73334	1.78936	1.66513	4.624
27 1,4-Dichlorobenzene	1.64545	1.61147	1.60397	1.66605	1.73463	1.80389	1.67758	4.630
28 1,2-Dichlorobenzene	1.47777	1.46905	1.48051	1.51518	1.60528	1.69452	1.54039	5.893

STL Pittsburgh

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: 722.i
 Lab File ID: F05280C1.D
 Analysis Type:
 Lab Sample ID: sstd050
 Method: \\qpitpa02\d\chem\722.i\052807.b\8270b.m

Injection Date: 28-MAY-2007 05:30
 Init. Cal. Date(s): 10-MAY-2007 22-MAY-2007
 Init. Cal. Times: 11:06 08:18
 Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	MIN	MAX	CURVE TYPE
			RRF	#D / %DRIFT	#D / %DRIFT
198 1,4-Dioxane	0.79273	0.90360	0.010 -13.98479	25.00000	Averaged
220 Benzaldehyde	0.69473	0.68430	0.010 1.50201	25.00000	Averaged
10 N-Nitrosodimethylamine	1.04356	1.12969	0.010 -6.25367	25.00000	Averaged
9 Pyridine	1.97892	2.13111	0.010 -7.69080	25.00000	Averaged
16 Methyl methanesulfonate	1.08159	1.09652	0.010 -1.38053	25.00000	Averaged
21 Aniline	1.49960	1.38276	0.010 7.79122	25.00000	Averaged
22 Phenol	1.48076	1.55222	0.010 -4.82602	20.00000	Averaged
23 bis(2-Chloroethyl)ether	1.06256	1.01272	0.010 4.69075	25.00000	Averaged
24 2-Chlorophenol	1.33679	1.28959	0.010 3.53033	25.00000	Averaged
26 1,3-Dichlorobenzene	1.66513	1.63018	0.010 2.09944	25.00000	Averaged
27 1,4-Dichlorobenzene	1.67758	1.65622	0.010 1.27318	20.00000	Averaged
28 1,2-Dichlorobenzene	1.54039	1.49480	0.010 2.95918	25.00000	Averaged
29 Benzyl Alcohol	0.75523	0.69840	0.010 7.52399	25.00000	Averaged
30 2-Methylphenol	1.02550	1.00565	0.010 1.93635	25.00000	Averaged
31 2,2'-oxybis(1-Chloropropane	0.32981	0.34497	0.010 -4.59679	25.00000	Averaged
37 Acetophenone	2.13181	1.94403	0.010 8.80843	25.00000	Averaged
32 N-Nitroso-di-n-propylamine	0.95294	0.99752	0.050 -4.67765	25.00000	Averaged
192 4-Methylphenol	1.22214	1.34989	0.010 -10.45273	25.00000	Averaged
34 Hexachloroethane	0.64374	0.63435	0.010 1.45846	25.00000	Averaged
35 Nitrobenzene	0.48784	0.47461	0.010 2.71233	25.00000	Averaged
41 Isophorone	0.70831	0.67334	0.010 4.93673	25.00000	Averaged
42 2-Nitrophenol	0.21812	0.19971	0.010 8.43970	20.00000	Averaged
43 2,4-Dimethylphenol	0.44254	0.40364	0.010 8.78939	25.00000	Averaged
44 bis(2-Chloroethoxy)methane	0.36835	0.33851	0.010 8.10202	25.00000	Averaged
48 2,4-Dichlorophenol	0.36237	0.33566	0.010 7.37146	20.00000	Averaged
49 Benzoic Acid	0.20731	0.17667	0.010 14.78126	25.00000	Averaged
50 1,2,4-Trichlorobenzene	0.47179	0.44321	0.010 6.05727	25.00000	Averaged
51 Naphthalene	1.04781	0.99004	0.010 5.51273	25.00000	Averaged
52 4-Chloroaniline	0.45922	0.40347	0.010 12.13902	25.00000	Averaged
54 2,6-Dichlorophenol	0.38894	0.36675	0.010 5.70525	25.00000	Averaged
56 Hexachlorobutadiene	0.37601	0.35987	0.010 4.29452	20.00000	Averaged
221 Caprolactam	0.10326	0.07431	0.010 28.03789	25.00000	Averaged
59 4-Chloro-3-Methylphenol	0.33838	0.29699	0.010 12.23097	20.00000	Averaged
62 2-Methylnaphthalene	0.75978	0.68216	0.010 10.21664	25.00000	Averaged
205 1-Methylnaphthalene	0.72426	0.62830	0.010 13.24911	25.00000	Averaged
64 Hexachlorocyclopentadiene	0.70266	0.66646	0.050 5.15166	25.00000	Averaged
66 2,4,6-Trichlorophenol	0.50640	0.47911	0.010 5.38947	20.00000	Averaged
67 2,4,5-Trichlorophenol	0.54065	0.50539	0.010 6.52133	25.00000	Averaged
222 1,1'-Biphenyl	1.97041	1.58861	0.010 19.37685	25.00000	Averaged
70 2-Chloronaphthalene	1.26808	1.22037	0.010 3.76217	25.00000	Averaged
73 2-Nitroaniline	0.36067	0.35231	0.010 2.31927	25.00000	Averaged
76 Dimethylphthalate	1.52394	1.37040	0.010 10.07526	25.00000	Averaged

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP16-0102-01

Level: (low/med) LOW

Lot #: C7E080110

WO #: JWF891A9

BATCH: 7131012

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS REC	% REC	LIMITS REC	QUAL
2-Chloronaphthalene	1960	ND	1230	63	45 - 105		
4-Chlorophenyl phenyl eth	1960	ND	1210	62	45 - 110		
Chrysene	1960	ND	1370	70	55 - 110		
Dibenz (a,h)anthracene	1960	ND	1690	86	40 - 125		
Dibenzofuran	1960	ND	1170	60	50 - 105		
Di-n-butyl phthalate	1960	ND	1230	63	55 - 110		
1,2-Dichlorobenzene	1960	ND	919	47	45 - 95		
1,3-Dichlorobenzene	1960	ND	801	41	40 - 100		
3,3'-Dichlorobenzidine	1960	ND	259	13	10 - 130		
2,4-Dichlorophenol	1960	ND	1160	59	45 - 110		
Diethyl phthalate	1960	ND	1120	57	50 - 115		
2,4-Dimethylphenol	1960	ND	773	39	30 - 105		
Dimethyl phthalate	1960	ND	1240	63	50 - 110		
4,6-Dinitro-2-methylpheno	1960	ND	1160	59	30 - 135		
2,4-Dinitrophenol	1960	ND	549	28	15 - 130		
2,6-Dinitrotoluene	1960	ND	1080	55	50 - 110		
Di-n-octyl phthalate	1960	ND	1430	73	40 - 130		
Fluoranthene	1960	ND	889	45*	55 - 115	a	
Fluorene	1960	ND	1240	63	50 - 110		
Hexachlorobenzene	1960	ND	1480	76	45 - 120		
Hexachlorobutadiene	1960	ND	1080	55	40 - 115		
Hexachloroethane	1960	ND	805	41	35 - 110		
Indeno (1,2,3-cd)pyrene	1960	ND	1570	80	40 - 120		
Isophorone	1960	ND	1170	60	45 - 110		
2-Methylnaphthalene	1960	ND	1120	57	45 - 105		
2-Methylphenol	1960	ND	1160	59	40 - 105		
Naphthalene	1960	ND	1130	58	40 - 105		
2-Nitroaniline	1960	ND	1230	63	45 - 120		

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP16-0102-01

Level: (low/med) LOW

Lot #: C7E080110

WO #: JWF891CA

BATCH: 7131012

COMPOUND	SPIKE	MSD	MSD	QC LIMITS			QUAL
	ADDED (ug/kg)	CONCENT. (ug/kg)	% REC	% RPD	RPD	REC	
Acenaphthene	1960	1050	54	13	44	45 - 110	
4-Chloro-3-methylphenol	1960	875	45	20	55	45 - 115	
2-Chlorophenol	1960	992	51	16	54	45 - 105	
1,4-Dichlorobenzene	1960	927	47	7.8	59	35 - 105	
2,4-Dinitrotoluene	1960	912	47*	16	45	50 - 115	a
4-Nitrophenol	1960	809	41	21	64	15 - 140	
N-Nitrosodi-n-propylamine	1960	1220	62	15	50	40 - 115	
Pentachlorophenol	1960	642	33	22	87	25 - 120	
Phenol	1960	1040	53	19	50	40 - 100	
Pyrene	1960	1750	90	14	66	45 - 125	
1,2,4-Trichlorobenzene	1960	1000	51	3.9	54	45 - 110	
bis(2-Ethylhexyl) phthalate	1960	1300	66	25	31	45 - 125	
Acenaphthylene	1960	1100	56	16	41	45 - 105	
Anthracene	1960	1070	55	21	22	55 - 105	
Benzo(a)anthracene	1960	1130	58	17	23	50 - 110	
Benzo(b)fluoranthene	1960	896	46	14	28	45 - 115	
Benzo(k)fluoranthene	1960	1130	58	15	31	45 - 125	
Benzo(ghi)perylene	1960	1350	69	19	50	40 - 125	
Benzo(a)pyrene	1960	1080	55	18	31	50 - 110	
bis(2-Chloroethoxy)methane	1960	968	49	8.9	35	45 - 110	
bis(2-Chloroethyl) ether	1960	972	50	5.5	33	40 - 105	
4-Bromophenyl phenyl ether	1960	1220	63	24	*	20	45 - 115
Butyl benzyl phthalate	1960	1460	75	14	35	50 - 125	
Carbazole	1960	946	48	27	*	20	45 - 115
4-Chloroaniline	1960	345	18	15	28	10 - 95	
2-Chloronaphthalene	1960	1080	55	13	28	45 - 105	
4-Chlorophenyl phenyl ethane	1960	1040	53	15	29	45 - 110	
Chrysene	1960	1160	59	17	31	55 - 110	

(Continued on next page)

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP16-0102-01

Level: (low/med) LOW

Lot #: C7E080110

WO #: JWF891CA

BATCH: 7131012

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS		QUAL
			% REC	% RPD	RPD	REC	
Dibenz(a,h)anthracene	1960	1460	74	15	55	40 - 125	
Dibenzofuran	1960	1030	53	12	27	50 - 105	
Di-n-butyl phthalate	1960	1010	51*	20	24	55 - 110	a
1,2-Dichlorobenzene	1960	956	49	4.0	25	45 - 95	
1,3-Dichlorobenzene	1960	873	45	8.6	46	40 - 100	
3,3'-Dichlorobenzidine	1960	147	7*	55	56	10 - 130	a
2,4-Dichlorophenol	1960	968	49	18	27	45 - 110	
Diethyl phthalate	1960	991	51	12	29	50 - 115	
2,4-Dimethylphenol	1960	593	30	26	26	30 - 105	
Dimethyl phthalate	1960	998	51	21	30	50 - 110	
4,6-Dinitro-2-methylpheno	1960	586	30	66	*	30 - 135	p
2,4-Dinitrophenol	1960	176	9*	96	*	56	15 - 130
2,6-Dinitrotoluene	1960	969	50	10	39	50 - 110	a p
Di-n-octyl phthalate	1960	1190	61	18	29	40 - 130	
Fluoranthene	1960	781	40*	13	23	55 - 115	a
Fluorene	1960	1040	53	17	29	50 - 110	
Hexachlorobenzene	1960	1200	61	21	29	45 - 120	
Hexachlorobutadiene	1960	1060	54	1.2	25	40 - 115	
Hexachloroethane	1960	887	45	9.7	29	35 - 110	
Indeno(1,2,3-cd)pyrene	1960	1260	65	22	37	40 - 120	
Isophorone	1960	1060	54	9.8	30	45 - 110	
2-Methylnaphthalene	1960	988	50	13	27	45 - 105	
2-Methylphenol	1960	941	48	21	29	40 - 105	
Naphthalene	1960	1050	54	6.7	25	40 - 105	
2-Nitroaniline	1960	1030	52	18	39	45 - 120	
3-Nitroaniline	1960	787	40	0.73	45	25 - 110	
4-Nitroaniline	1960	832	43	14	44	35 - 115	
Nitrobenzene	1960	1030	52	6.4	29	40 - 115	

(Continued on next page)

2,4-dinitrophenol and 3,3'-dichlorobenzidine
 acceptable %R in the MS, but < criteria
 in the MSD. No action required.

SW846 8270C MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Severn Trent Laboratories, Inc.

Client: Tetra Tech NUS, Inc

Lab Code: STLPIT

SDG No:

Matrix Spike ID: 03TP16-0102-01

Level: (low/med) LOW

Lot #: C7E080110

WO #: JWF891CA

BATCH: 7131012

COMPOUND	SPIKE ADDED	MSD CONCENT.	MSD		QC LIMITS			QUAL
			% REC	% RPD	RPD	REC		
2-Nitroph nol	1960	941	48	12	-	30	40 - 110	
N-Nitrosodiphenylamine	1960	1050	54	26	-	68	50 - 115	
Phenanthrene	1960	1100	56	33	*	20	50 - 110	p
2,4,5-Trichlorophenol	1960	883	45*	20	-	30	50 - 110	a
2,4,6-Trichlorophenol	1960	936	48	27	-	29	45 - 110	
Benzyl alcohol	1960	929	47	11	-	20	20 - 125	
2,2'-oxybis(1-Chloropropyl)	1960	942	48	8.3	-	27	20 - 115	
N-Nitrosodimethylamine	1960	973	50	6.2	-	47	20 - 115	
3-Methylphenol & 4-Methyl	3910	2260	58	25	-	49	40 - 105	
1,2-Diphenylhydrazine (as	1960	1420	73	24	*	20	1 - 175	p

NOTES (8) :

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 6 out of 66 outside limitsSpike Recovery: 6 out of 66 outside limits

COMMENTS:

8D
PESTICIDE ANALYTICAL SEQUENCE

Lab Name: STL PITTSBURGH

Contract:

Lab Code: STL

Case No.: *0100*

SAS No.: 40325

SDG No.: MEIH

GC Column: RTX-50 *1/12-2?*
MR ID: 0.53 (mm) Init. Calib. Date(s): 04/03/07 04/03/07

Instrument ID: GC4

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS,
SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION			
	TCX: 3.85	DCB: 11.19	
EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED
01	EVALB	04/03/07	1139
02	MEDTOX	04/03/07	1156
03	MCHLOR	04/03/07	1213
04	LAPPX1	04/03/07	1230
05	MLAPPX1	04/03/07	1247
06	MAPPX1	04/03/07	1304
07	MHAPPX1	04/03/07	1321
08	HAPPX1	04/03/07	1338
09	XHAPPX1	04/03/07	1355
10	LAPPX2	04/03/07	1413
11	MLAPPX2	04/03/07	1430
12	MAPPX2	04/03/07	1447
13	MHAPPX2	04/03/07	1504
14	HAPPX2	04/03/07	1521
15	XHAPPX2	04/03/07	1538
16	LOWA	04/03/07	1555
17	MLOWA	04/03/07	1612
18	MEDA	04/03/07	1629
19	MHIGHA	04/03/07	1646
20	HIGHA	04/03/07	1703
21	XHIGHA	04/03/07	1721
22	LOWB	04/03/07	1738
23	MLOWB	04/03/07	1755
24	MEDB	04/03/07	1812
25	MHIGHB	04/03/07	1829
26	HIGHB	04/03/07	1846
27	XHIGHB	04/03/07	1903
28	2ND 1	04/03/07	1920
29	2ND 2	04/03/07	1937
30	2ND A	04/03/07	1955
31	2ND B	04/03/07	2012
32	EVALB	04/03/07	2029

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.03 MINUTES)

DCB = Decachlorobiphenyl (+/- 0.03 MINUTES)

Column used to flag retention time values with an asterisk.

* Values outside of QC limits.

page 1 of 1

FORM VIII PEST

OLM03.0